

10-10-00

10/06/00

UTILITY PATENT APPLICATION TRANSMITTAL
(Only for new nonprovisional applications under 37 CFR 1.53(b))

JJC 925 U.S. 100
09/680654 A

ocket No. : PSTM0015/MRK/STM
nventor(s) : David Allison Bennett, et al.
le : APPARATUS, SYSTEMS AND METHODS FOR ONLINE, MULTI-CARRIER,
MULTI-SERVICE PARCEL SHIPPING MANAGEMENT FEATURING SHIPPING
RATE AND DELIVERY SCHEDULE COMPARISON FOR MULTIPLE
CARRIERS
Express Mail Label No. : EK623102653US

Express Mail Label No. : EK623102653US
ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, D.C. 20231

Date: October 6, 2000

- 1. FEE TRANSMITTAL FORM** (*Submit an original, and a duplicate for fee processing.*)

Prior application information: Examiner: Group Art Unit:

X This application claims priority pursuant to 35 U.S.C. §119(e) and 37 CFR §1.78(a)(4), to provisional Application No. 60/158,179, Filing Date October 6, 2000; Application No. 60/170,186, Filing Date December 10, 1999; Application No. 60/170,504, Filing Date December 13, 1999; Application No. 60/192,692, Filing Date March 28, 2000; Application No. 60/192,723, Filing Date March 27, 2000; Application No. 60/193,899, Filing Date March 31, 2000; and Application No. 60/195,748, Filing Date April 6, 2000.

3. APPLICATION COMPRISING OF

Specification

124 Specification, claims and Abstract (total pages)

Drawings

92 Sheets of drawing(s) (FIGS. 1 to 82)

Declaration and Power of Attorney

Newly executed

X Newly executed
[] Unexecuted declaration

Copy from a prior application (37 CFR 1.63(d)) (for continuation and divisional)

4. Microfiche Computer Program (Appendix)

5 Nucleotide and/or Amino Acid Sequence Submission (*if applicable, all necessary*)

Nucleotide and/or Amino Acid Sequence Computer Readable Copy

Computer Readable Copy
 Paper Copy (identical to computer copy)

Paper Copy (Identical to computer copy)
Statement verifying identity of above copies

6 ALSO ENCLOSED ARE

ALSO ENCLOSED ARE

Preliminary Amendment

Preliminary Amendment
A Petition for Extension of Time for the parent application and the required fee are enclosed as separate papers.

JCS25 U.S. PTO
09/68/054
10/06/00

**FEE TRANSMITTAL
UTILITY PATENT APPLICATION**

DATE: October 6, 2000

Docket No. : PSTM0015/MRK/STM
Inventor(s) : David Allison Bennett, et al.
Title : APPARATUS, SYSTEMS AND METHODS FOR ONLINE, MULTI-CARRIER, MULTI-SERVICE PARCEL SHIPPING MANAGEMENT FEATURING SHIPPING RATE AND DELIVERY SCHEDULE COMPARISON FOR MULTIPLE CARRIERS

FEES DETERMINATION

CLAIMS AS FILED					
	NUMBER FILED	NUMBER EXTRA	SMALL ENTITY RATE	LARGE ENTITY RATE	Fee
TOTAL CLAIMS	89 - 20	= 69	x \$9.00	69x \$18.00	1242.00
INDEPENDENT CLAIMS	35 - 3	= 32	x \$40.00	32 x \$80.00	2560.00
MULTIPLE-DEPENDENT CLAIMS FEE			\$135.00	\$270.00	
BASIC FEE			\$355.00	\$710.00	710.00
TOTAL FILING FEE					\$4512.00

List Independent Claims: 1, 13, 6, 27, 28, 29, 30, 31, 32, 43, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77 and 78

METHOD OF PAYMENT

No Payment Enclosed

Respectfully submitted,

KHORSANDI PATENT LAW GROUP, ALC

By Marlyn R. Khorsandi
Marlyn R. Khorsandi
Reg. No. 45,744
626/796-2856

MRK/crb
A:\mastertransmittal.wpd

PSTM0015/MRK/STM

1 APPARATUS, SYSTEMS AND METHODS FOR ONLINE, MULTI-CARRIER, MULTI-
2 SERVICE PARCEL SHIPPING MANAGEMENT FEATURING SHIPPING RATE AND
3 DELIVERY SCHEDULE COMPARISON FOR MULTIPLE CARRIERS
4

5 CROSS REFERENCE TO RELATED APPLICATIONS

6 This application claims priority of U.S. Provisional Patent Application Serial No.
7 60/158,179, filed on October 6, 1999, U.S. Provisional Patent Application Serial No.
8 60/170,186, filed on December 10, 1999, U.S. Provisional Patent Application Serial No.
9 60/170,504, filed on December 13, 1999, U.S. Provisional Patent Application Serial
10 No. 60/192,692, filed on March 28, 2000, U.S. Provisional Patent Application Serial No.
11 60/192,723, filed on March 27, 2000, U.S. Provisional Patent Application Serial No.
12 60/193,899, filed on March 31, 2000, and U.S. Provisional Patent Application Serial No.
13 60/195,748, filed on April 6, 2000. The disclosures of U.S. Provisional Patent Application
14 Serial No. 60/158,179, filed on October 6, 1999, U.S. Provisional Patent Application Serial
15 No. 60/170,186, filed on December 10, 1999, U.S. Provisional Patent Application Serial No.
16 60/170,504, filed on December 13, 1999, are incorporated for all purposes herein by reference
17 as if fully stated here.

18
19 FIELD OF THE INVENTION

20 The field of the present invention is computer systems, and specifically computer
21 systems for parcel shipping management.

22
23 BACKGROUND OF THE INVENTION

24 Individuals, small businesses and major corporations the ("Shipper(s)") ship billions
25 of parcels every year (small office/home office shippers are referred to as "SOHO" Shippers).
26 Each parcel, also sometimes referred to herein as a package, is shipped by a Shipper using at
27 least one parcel carrier (the "carrier(s)", or "Carrier(s)").

28 Each parcel is characterized by a set of "Parcel Specifications." Parcel specifications
29 include but are not limited to such factors as: parcel dimensions, parcel weight, parcel value,
30 parcel value and the like.

1 Each Shipper is faced with certain shipping requirements and limitations ("Shipping
2 Requirements"), such as the location from which the parcel is to be shipped, time frame
3 within which the particular parcel must arrive at its destination, the ability of the shipper to
4 drop off the parcel, budgetary constraints with regard to the cost of shipping, insurance
5 against loss, delivery notification, loss protection, and the like.

6 Each Carrier has its own unique rating schedule, and delivery and pickup rules and
7 schedules for each of a multitude of different services. In some cases, a particular Carrier's
8 rules may be available in a standalone Carrier-provided paper-based or computer system.
9 Many Shippers attempt to work with each of the standalone, individual paper-based and
10 computer Carrier-provided systems ("standalone Carrier system environment") in order to
11 ship a parcel.

12 A Shipper that uses standalone Carrier systems must sort through the various services
13 offered by each carrier and apply each Carrier's rules to determine whether one or more
14 carriers offer a service with which to deliver a particular parcel according to the Shipper's
15 requirements. If the Shipper determines that more than one carrier offers a service with
16 which to deliver a particular parcel according to the Shipper's requirements, then the
17 particular Shipper might additionally be concerned with selecting a carrier and service that
18 provide shipping services at the optimal price.

19 One of the problems in dealing with standalone Carrier systems is that, if the Shipper
20 wants a particular parcel to be delivered to a particular destination under certain budgetary
21 preferences and according to certain delivery schedule preferences, the Shipper must attempt
22 to apply each Carrier's pricing and delivery schedule rules for each service offered by the
23 Carrier to the particular parcel to be shipped. Each Carrier's pricing and delivery schedule
24 rules for delivering parcels must be separately applied by the Shipper to shipment of a
25 particular parcel to determine shipping rates and delivery schedules for each service offered
26 by each Carrier. Accordingly, some way is needed so that a Shipper can accurately and
27 easily identify the rates and delivery schedules for each service offered by each Carrier for
28 shipping a particular parcel.

29 Another one of the problems with any system that communicates with client
30 computers over the Internet is response time. Once a system generates a display, if a user of

1 an interactive online system modifies data on which the display was based, then in some
2 cases, the system receives the data, regenerates the display, and then retransmits the display to
3 the user's display monitor. Higher speed modems, DSL, and other communications
4 improvements continue to improve the speed at which data is transmitted through the Internet.
5 However, response time continues to be a problem. An alternative way is needed reduce
6 response time with which a display is regenerated in response to a user modifying data on
7 which the display is based.

8

9 SUMMARY OF THE INVENTION

10 The present invention provides apparatus, systems and methods for displaying to each
11 of a plurality of users, upon each user's request, as to each particular parcel to be shipped by
12 each user, an online interactive graphic comparison of a plurality of shipping rates calculated
13 for each of a plurality of services offered by each of a plurality of carriers to ship a particular
14 parcel, each shipping rate corresponding to a particular service offered by a particular carrier
15 for delivering the particular parcel to a particular delivery destination at a particular parcel
16 delivery time on a particular parcel delivery date, wherein each user accesses the computer
17 system over a global communications network using a client computer device, and wherein
18 each user has an individual electronic connection to the global communications network.

19 The present invention provides apparatus, systems and methods for regenerating an
20 online interactive graphic comparison of a plurality of shipping rates calculated for each of a
21 plurality of services offered by each of a plurality of carriers, at any particular remote user
22 client computer device of a plurality of remote user client computer devices, based on
23 modified input by a user at a particular remote user client computer device, wherein the
24 present invention communicates with each remote user client computer device over a global
25 communications network.

26 The present invention executes a set of computer instructions with a set of data input
27 by a particular user from a particular remote user client computer device. The present
28 invention generates an interactive user interface shipping information display comprising the
29 data input by the particular user, a result of the executed set of computer instructions, at least
30 one data collection field initialized with a data item from the data input by the particular user,

1 and an instruction to execute the executable set of instructions in response to a user
2 modification of data in the data collection field. The present invention distributes with the
3 interactive user interface shipping information display to the client computer device an
4 executable set of the executed computer instructions with the instruction to execute the
5 executable set of instructions in response to a user modification of the initialized data in the
6 data collection field.

7 When the particular remote user client computer device receives the shipping
8 information display, it presents the display on a display monitor device configured with it. If
9 the user modifies the data on which the shipping information display is based by modifying
10 the initialized data in the data collection field distributed with the shipping information
11 display, then the distributed instruction to execute recognizes the modified data and causes a
12 browser program on the particular remote user client computer device to execute the
13 executable instructions with the modified data.

14

15 BRIEF DESCRIPTION OF THE DRAWINGS

16 These and other features of the present invention are more fully set forth in the
17 following description of exemplary embodiments of the invention. The description is
18 presented with reference to the accompanying drawings in which:

19 FIG. 1 is an entity relationship diagram depicting the interface relationships provided
20 by the System between Shippers as Sellers, Carriers, Recipients as Buyers,
21 eCommerce/eAuction Providers and the System in an exemplary embodiment of the System
22 in an independent system eCommerce environment;

23 FIG. 2 is an entity relationship diagram depicting the interface relationships provided
24 by the System between Shippers, Carriers, Recipients and the System in an exemplary
25 embodiment of the System in an Internet environment;

26 FIG. 3 is a graphic representation depicting an exemplary user computer configuration
27 and the user computer's interface with the System in an Internet environment;

28 FIG. 4 is a simplified schematic diagram of a user's computer and the interface
29 between the user's computer and the System servers using the Internet in an exemplary
30 embodiment of the invention in an Internet environment;

1 FIG. 5 is a simplified graphic representation of an exemplary configuration of the
2 System, and relationships between the System and Carriers and Users, in an exemplary
3 embodiment of the System in an independent system eCommerce environment;

4 FIG. 6 is a simplified graphic representation depicting an alternate view of the System
5 Data Center and its interfaces in an exemplary embodiment of the System in an independent
6 system eCommerce environment;

7 FIG. 7 is a simplified graphic representation of an exemplary configuration of the
8 System, and relationships between the System and Carriers and Shippers/Users, in an
9 exemplary simplified Internet embodiment of the invention;

10 FIG. 8 is a high level System component diagram depicting an exemplary System
11 Architecture in an exemplary embodiment of the System in an Internet environment;

12 FIG. 9 is a graphic representation of an exemplary menu architecture for the System in
13 an exemplary embodiment of the System in an independent system eCommerce environment;

14 FIGS. 10a through 10e are high level logic flow diagrams depicting the logic flow for
15 processing both Shipper/Seller and Buyer/Bidder information in an exemplary embodiment of
16 the System in an independent system eCommerce environment;

17 FIG. 11 is a graphic representation depicting an exemplary embodiment of a
18 registration introduction screen in an exemplary embodiment of the System in an independent
19 system eCommerce environment;

20 FIG. 12 is a graphic representation depicting an exemplary embodiment of a User
21 address collection screen in an exemplary embodiment of the System in an independent
22 system eCommerce environment;

23 FIG. 13 is a graphic representation of an exemplary embodiment of a Shipping
24 Location screen in an exemplary embodiment of the System in an independent system
25 eCommerce environment;

26 FIG. 14 is a graphic representation depicting an exemplary embodiment of a Locations
27 screen in an exemplary embodiment of the System in an independent system eCommerce
28 environment;

29 FIG. 15 is a graphic representation depicting an alternative exemplary embodiment of
30 a Locations screen inset in an alternative exemplary embodiment of the System in an Internet

1 environment;

2 FIG. 16 is a graphic representation of an exemplary embodiment of a UPS registration
3 screen in an exemplary embodiment of the System in an independent system eCommerce
4 environment;

5 FIG. 17 is a graphic representation of an exemplary embodiment of an eCommerce
6 registration introduction screen in an exemplary embodiment of the System in an independent
7 system eCommerce environment;

8 FIG. 18 is a graphic representation of a registration complete screen in an exemplary
9 embodiment of the System in an independent system eCommerce environment;

10 FIG. 19 is a graphic representation of an exemplary embodiment of the Seller's
11 Carrier/Service Preferences Screen in an exemplary embodiment of the System in an
12 independent system eCommerce environment;

13 FIG. 20 is a graphic representation of an alternative embodiment of the Seller's
14 Carrier/Service Preferences Screen in an exemplary embodiment of the System in an
15 independent system eCommerce environment;

16 FIG. 21 is a graphic representation of an exemplary embodiment of a Seller's Charges
17 and Payment Preferences Screen in an exemplary embodiment of the System in an
18 independent system eCommerce environment;

19 FIG. 22 is a graphic representation of an alternative embodiment of the Seller's
20 Charges and Payment Preferences Screen in an exemplary embodiment of the System in an
21 independent system eCommerce environment;

22 FIG. 23 is a System interactivity data and logic flow diagram depicting an exemplary
23 embodiment of the Seller's eCommerce Registration process in an exemplary embodiment of
24 the System in an independent system eCommerce environment;

25 FIG. 24 is a graphic representation of a Registration Needs Completion Screen in an
26 exemplary embodiment of the System in an independent system eCommerce environment;

27 FIG. 25 is a graphic representation of an exemplary embodiment of a Create a Seller's
28 Link Screen in an exemplary embodiment of the System in an independent system
29 eCommerce environment;

30 FIG. 26 is a graphic representation of an alternative online screen that collects a

1 user's shipping specifications and preferences in an alternative exemplary embodiment of the
2 System in an Internet environment;

3 FIGS. 27a through 27c are high level logic flow diagrams control communications
4 with client machine peripheral devices in an exemplary embodiment of the System in an
5 Internet environment;

6 FIG. 28 is a graphic representation of an alternative online screen that collects
7 supplemental user shipping specifications and preferences in an alternative exemplary
8 embodiment of the System in an Internet environment;

9 FIG. 29 is a graphic representation of an alternative embodiment of a Create a Seller's
10 Link Screen in an exemplary embodiment of the System in an independent system
eCommerce environment;

11 FIG. 30 depicts an exemplary alternative embodiment of the Create a Seller's Link
12 screen in an exemplary embodiment of the System in an independent system eCommerce
13 environment;

14 FIG. 31 depicts the text of an exemplary hypertext link such as is created by an
15 exemplary embodiment of the "Create Link" feature in an exemplary embodiment of the
16 System in an independent system eCommerce environment;

17 FIG. 32 is a graphic representation depicting an alternative embodiment of a hyperlink
18 generated by the System in an exemplary embodiment of the System in an independent
19 system eCommerce environment;

20 FIGS. 33a and 33b represent a database schema diagram that depicts an exemplary
21 embodiment of tables in which data is stored by the System regarding a particular Seller
22 Account in an exemplary embodiment of the System in an independent system eCommerce
23 environment;

24 FIG. 34 is a graphic representation of an exemplary embodiment of a Seller's
25 eCommerce/eAuction web site page in an exemplary embodiment of the System in an
26 independent system eCommerce environment;

27 FIG. 35 is a graphic representation of an exemplary Buyer shipping rating information
28 collection screen that the Buyer would see upon entry into the System in an exemplary
29 embodiment of the System in an independent system eCommerce environment;

1 FIG. 36a is a graphic representation depicting an exemplary embodiment of a
2 dynamically dimensioned, multi-carrier, multi-service shipping rates comparison Graphic
3 Array in an exemplary embodiment of the System in an independent system eCommerce
4 environment;

5 FIGS. 36b through 36e are high level data retrieval logic flow diagrams depicting the
6 data and high level logic that the system uses to calculate a shipping rate;

7 FIG. 36f is a graphic representation of an alternative exemplary Preview Rates Screen
8 (also referred to in some embodiments as a Rates and Times Screen) in an alternative
9 exemplary embodiment of the invention;

10 FIGS. 37a and 37b represent a System interactivity data and logic flow diagram
11 depicting an exemplary embodiment of the Create Link and the Buyer's Preview Shipping
12 Rates functionality in an exemplary embodiment of the System in an independent system
13 eCommerce environment;

14 FIG. 38 is a high level flow diagram depicting an overview of the System logic to
15 generate a dynamically dimensioned, multi-carrier, multi-service shipping rates comparison
16 Graphic Array in an exemplary embodiment of the System in an Internet environment;

17 FIGS. 39a through 39c are high level flow diagrams depicting the initial timing and
18 rating logic to develop a dynamically dimensioned, multi-carrier, multi-service shipping rates
19 comparison Graphic Array in an exemplary embodiment of the System in an Internet
20 environment;

21 FIG. 40 is a graphic representation depicting an exemplary embodiment of a multi-
22 carrier, multi-service shipping rates comparison Graphic Array in an exemplary embodiment
23 of the System in an independent system eCommerce environment;

24 FIG. 41 is a graphic representation of a Seller's Buyer Information Screen in an
25 exemplary embodiment of the System in an independent system eCommerce environment;

26 FIG. 42 is a graphic representation of an exemplary embodiment of a Subject Parcel
27 data screen in an exemplary embodiment of the System in an independent system eCommerce
28 environment;

29 FIG. 43 is a graphic representation of an exemplary embodiment of a System-prepared
30 e-mail to the Buyer in an exemplary embodiment of the System in an independent system

1 eCommerce environment;

2 FIG. 44 is a graphic representation of an exemplary embodiment of the Buyer
3 Response Introduction screen in an exemplary embodiment of the System in an independent
4 system eCommerce environment;

5 FIG. 45 is a graphic representation of an exemplary embodiment of the Buyer
6 Shipping Information Collection screen in an exemplary embodiment of the System in an
7 independent system eCommerce environment;

8 FIG. 46 is a graphic representation depicting an alternative exemplary embodiment of
9 a dynamically dimensioned, multi-carrier, multi-service shipping rates comparison Graphic
10 Array in an alternative exemplary embodiment of the System in an independent system
11 eCommerce environment;

12 FIG. 47 is a graphic representation depicting an exemplary embodiment of a Shipping
13 Summary Screen in an exemplary embodiment of the System in an independent system
14 eCommerce environment;

15 FIG. 48 is a graphic representation depicting an alternative exemplary embodiment of
16 a Shipping Summary Screen in an exemplary embodiment of the System in an Internet
17 environment;

18 FIG. 49 is a graphic representation depicting an exemplary embodiment of a
19 Cardholder Information collection screen in an exemplary embodiment of the System in an
20 independent system eCommerce environment;

21 FIG. 50 is a graphic representation depicting an exemplary embodiment of a System's
22 Shipping Log in an exemplary embodiment of the System in an independent system
23 eCommerce environment;

24 FIG. 51 is a graphic representation depicting an exemplary embodiment of a Seller
25 notification e-mail in an exemplary embodiment of the System in an independent system
26 eCommerce environment;

27 FIG. 52 is a graphic representation of an exemplary embodiment of a Void Package
28 screen in an exemplary embodiment of the System in an independent system eCommerce
29 environment;

30 FIG. 53 is a graphic representation of an exemplary embodiment of a Reprint Label

1 screen in an exemplary embodiment of the System in an independent system eCommerce
2 environment;

3 FIG. 54 is a high level flow diagram depicting an exemplary embodiment of Label
4 Printing in an exemplary embodiment of the System in an Internet environment;

5 FIG. 55 is a high level flow diagram depicting an exemplary embodiment of Image
6 Printing in an exemplary embodiment of the System in an Internet environment;

7 FIGS. 56 through 58 are graphic representations of exemplary online screens with
8 which a user controls the final shipping and label printing for a particular package in an
9 alternative exemplary embodiment in an Internet environment;

10 FIG. 59 is a graphic representation of an exemplary embodiment of a Send Ship
11 Notification screen in an exemplary embodiment of the System in an independent system
12 eCommerce environment;

13 FIG. 60 is a graphic representation of an alternative exemplary embodiment of a Send
14 Ship Notification screen in an alternative exemplary embodiment of the System in an Internet
15 environment;

16 FIG. 61 is a graphic representation depicting an exemplary embodiment of a Ship a
17 Package Summary online report in an exemplary embodiment of the System in an
18 independent system eCommerce environment;

19 FIG. 62 is a graphic representation depicting an exemplary embodiment of a UPS
20 End-of-Day Screen in an exemplary embodiment of the System in an independent system
21 eCommerce environment;

22 FIG. 63 is a graphic representation of an exemplary embodiment of a Reprint Driver
23 Record Screen in an exemplary embodiment of the System in an independent system
24 eCommerce environment;

25 FIGS. 64a-1, 64a-2, 64b-1 and 64b-2 are System interactivity data and logic flow
26 diagrams depicting an exemplary embodiment of the process by which the System completes
27 the information necessary to ship a package in an exemplary embodiment of the System in an
28 independent system eCommerce environment;

29 FIGS. 65a and 65b represent a database schema diagram that depicts an exemplary
30 embodiment of tables in which data is stored by the System regarding a particular package

1 and a particular Seller's Account in an exemplary embodiment of the System in an
2 independent system eCommerce environment;

3 FIG. 66 depicts an exemplary XML formatted request for submitting a tracking
4 request to a Carrier in an exemplary embodiment of the System in an Internet environment;

5 FIG. 67 depicts an exemplary successful tracking response, also in XML format,
6 returned by the Carrier in an exemplary embodiment of the System in an Internet
7 environment;

8 FIG. 68 is a graphic representation of a Shipper online user input screen that is
9 displayed on the Shipper's display screen in an exemplary embodiment of the System in an
10 Internet environment;

11 FIG. 69 is a logic flow diagram that depicts the high level logic for tracking the status
12 of a particular package in an exemplary embodiment of the System in an Internet
13 environment;

14 FIG. 70 is a graphic representation of an exemplary embodiment of a Tracking Failure
15 Report Screen in an exemplary embodiment of the System in an Internet environment;

16 FIG. 71 is a graphic representation of an exemplary embodiment of a Successful
17 Tracking Report Screen for a package with Delivered status in an exemplary embodiment of
18 the System in an Internet environment;

19 FIG. 72 is a graphic representation of an exemplary embodiment of a Successful
20 Tracking Report Screen for a package with non-final status in an exemplary embodiment of
21 the System in an Internet environment;

22 FIG. 73 is a graphic representation of an exemplary CMS online user input screen in
23 an exemplary embodiment of the System in an Internet environment;

24 FIG. 74 is a graphic representation of an exemplary CMS display screen that reports a
25 successful tracking result in an exemplary embodiment of the System in an Internet
26 environment;

27 FIG. 75 is a graphic representation of an exemplary CMS error tracking report display
28 screen in an exemplary embodiment of the System in an Internet environment;

29 FIG. 76 is a graphic representation of an exemplary embodiment of a "My Tracking"
30 Screen in an exemplary embodiment of the System in an Internet environment;

1 FIG. 77 is a graphic representation of an exemplary embodiment of a Shipping Log
2 Screen;

3 FIG. 78 is a graphic representation of an exemplary embodiment of a Detailed
4 Shipping Log Entry Screen in an exemplary embodiment of the System in an Internet
5 environment;

6 FIG. 79 is a graphic representation of an exemplary embodiment of a detailed “Quick
7 Track” result screen in an exemplary embodiment of the System in an Internet environment;

8 FIG. 80 is a graphic display of an exemplary embodiment of an “Add Inbound
9 Packages” Screen in an exemplary embodiment of the System in an Internet environment;

10 FIG. 81 is a graphic representation of an exemplary embodiment of a “View Inbound
11 Packages” Summary Screen in an exemplary embodiment of the System in an Internet
12 environment; and

13 FIG. 82 is a graphic representation of a View Inbound Packages Detail Screen in an
14 exemplary embodiment of the System in an Internet environment.

15
16 DETAILED DESCRIPTION OF THE INVENTION

17 A portion of the disclosure of this patent document, including but not limited to the
18 renderings of graphic user interface displays in FIGS. 10a through 10e, FIGS. 11 through 22,
19 FIGS. 24 through 26, FIGS. 28 through 30, FIGS. 34 through 35, FIG. 36a, FIG. 36f, FIGS.
20 40 through 53, FIGS. 56 through 63, FIGS. 68, and FIGS. 70 through 82, contains material
21 which is subject to copyright protection by Stamps.com, Inc. Stamps.com, Inc. has no
22 objection to the facsimile reproduction by anyone of the patent document or the patent
23 disclosure, as it appears in the Patent and Trademark Office patent file or records, but
24 otherwise reserves all copyright rights whatsoever.

25 “iShip.com”, “iShip”, “The Internet Package Shipper”, “Price It”, “Sell It”, “Track
26 It”, “Ship It”, “Shipping Tools”, “My iShip” and associated logos are trademarks of
27 Stamps.com, Inc. The names of actual companies and products mentioned herein may be the
28 trademarks of their respective owners.

1 A. CONTEXTUAL OVERVIEW OF EXEMPLARY EMBODIMENT TYPES

2 Two types of exemplary Internet-related embodiments of the invention will be
3 described herein: 1.) an exemplary simplified Internet embodiment; and 2.) an exemplary
4 electronic commerce (“eCommerce”) embodiment. Because these two types of embodiments
5 differ somewhat in user interface interaction features and flow, a brief perspective overview
6 of these two exemplary embodiment types is provided below.

7

8 1. Exemplary Simplified Internet Embodiment.

9 In the exemplary simplified Internet embodiment of the invention, a system (the
10 “System”) exemplifying features of the invention provides a single automated computer
11 interface between users of the system who are shippers of parcels (“Shippers”) and multiple
12 carriers of parcels (“Carriers”). Each Shipper, using a client computer device, accesses the
13 System over a global communications network such as the Internet. Each Shipper uses the
14 System to arrange for, and manage the shipment of, one or more parcels. Each shipment
15 arranged by a Shipper is performed by a particular Carrier, using a particular service offered
16 by that particular Carrier. References herein to the words “parcel” and “package” include
17 letters, and larger items (*see, e.g.*, FIG. 15 below and Packaging types 1043 (Carrier Letter),
18 1044 (Carrier Pak), 1046 (Carrier Box), 1047 (Carrier Tube), and 1045 (Other Packaging)).

19 Each Carrier may provide one or more types of shipment services, such as, for
20 example, Next Day, Two-Day, etc. Each parcel shipped by the Shipper is shipped to a
21 particular Recipient. Each supported Carrier has a unique rating schedule, delivery and
22 pickup rules and schedules, and certification requirements (the “Carrier Rules”).

23 In the exemplary simplified Internet embodiment, the Shipper provides all information
24 required by the System to facilitate the shipping of each parcel to be shipped by a Carrier
25 designated by the Shipper; the recipient, once provided with a tracking number can access the
26 System to track the status of a package but is not called upon to provide any information
27 necessary to facilitate or manage the shipment. As is further described below, the provision
28 of information by the Shipper in the exemplary simplified Internet embodiment differs from
29 the exemplary eCommerce embodiment, in which both the Shipper (also referred to as the

1 “Seller”) and the Recipient (also referred to as the “Buyer”) provide information to the
2 System to facilitate and manage a particular shipment.

3 2. Exemplary eCommerce Embodiment.

4 In an eCommerce embodiment of the invention, the Shipper is a seller (the “Seller”) of
5 goods through a particular eCommerce or electronic Auction (“eAuction”) provider
6 (eCommerce or eAuction web site). The Seller/Shipper registers with a particular
7 eCommerce/eAuction provider (the “Provider”) at the Provider’s Web site to sell, advertise,
8 or otherwise describe, one or more items that the Seller/Shipper hopes to sell or award to the
9 highest bidder using an electronic auction facility.

10 As opposed to the exemplary simplified Internet embodiment where all information
11 necessary for arranging a particular shipment is provided by the Shipper, in the exemplary
12 eCommerce embodiment of the invention, the System prompts different individuals to provide
13 information necessary to rate and ship a particular parcel.

14 The Seller/Shipper (sometimes referred to herein simply as the “Seller,” or as the
15 “Shipper”) provides information to the System concerning the particular parcel that the Seller
16 will be selling/auctioning and subsequently shipping. The Seller also describes to the System
17 the Seller’s rules by which potential and actual buyers (sometimes referred to herein as
18 “Buyers/Recipients”, or simply as “Buyers”, or as “Recipients”) view the shipping, payment
19 and other options.

20 A potential Buyer of an item to be purchased from a particular Seller is prompted by
21 the System to initially provide certain limited shipping information (such as a destination zip
22 code) in order to preview shipping rates for the item that the Buyer is considering purchasing.

23 An actual Buyer is prompted by the System to provide shipping details such as the
24 Buyer’s destination address. If the Seller has instructed the System to require the Buyer to pay
25 shipping costs, the System prompts the Buyer to make the final selection of Carrier and
26 Service.

27 The System in the exemplary eCommerce embodiment provides a communication link
28 between the Buyer and the Seller, sending certain types of notifications and information
29 between them.

1 Further differences between the exemplary eCommerce embodiment and the
2 exemplary simplified Internet embodiment include, among other things, the typical access
3 entry into the System. In the exemplary simplified Internet embodiment, the Shipper accesses
4 the Shipping site directly. In the exemplary eCommerce embodiment, the Seller/Shipper can
5 additionally “link” to the Shipping site from the relevant eCommerce Provider’s Site.

6 The System and screen flows for the exemplary simplified Internet and eCommerce
7 embodiments differ somewhat. A description of the features that are common between the
8 two types of embodiments of the present invention is provided below as is a description of the
9 differences between the two types of exemplary embodiments.

10 In the exemplary eCommerce embodiment described below, the present invention is
11 provided as a web-based application service from a common provider, sometimes referred to
12 herein as “iShip.com”. As such, the relevant eCommerce Provider does not have to install or
13 manage any server software; the Provider only provides a “link” to the System web site.

14

15 **B. SYSTEM OVERVIEW**

16

17 1. Entity Interface Relationships

18 FIG. 1 is a graphic representation depicting the interface relationships provided by an
19 exemplary eCommerce embodiment of the System 1 of the present invention between
20 electronic Commerce providers 2a-2n, Sellers/Shippers 3a-3n, Carriers 4a-4n, and
21 Buyers/Recipients 5a-5n. As conceptually depicted in FIG. 1, each Seller/Shipper 3a-3n
22 views the System 1 as an individualized automated Shipping System.

23 It should be noted that the use of suffixes such as “a” through “n” in connection with
24 numbered elements of the FIGURES herein are exemplary and are not a limitation of the
25 invention to any particular number. Rather, the suffixes “a” through “n” and “a” through “z”,
26 and similar notations, are used to represent any, but unknown, number of similar elements.

27 FIG. 2 depicts the interface relationships provided by an exemplary simplified Internet
28 embodiment of the System between the Shippers 3a-3n, Carriers 4a-4n, and Recipients 5a-5n.
29 As conceptually depicted in FIG. 2, each Shipper 3a-3n views the System 1 as an

1 individualized automated Shipping System.

2 In both the exemplary eCommerce and simplified Internet embodiments, the System 1
3 provides Shippers/Users 3a-3n with a computerized shipping and tracking system that allows
4 shipment by the same Shipper/User 3a-3n of different packages using different services
5 provided by different Carriers 4a-4n. Carriers 4a-4n supported by the System include Carriers
6 such as Airborne, FedEx, United Parcel Service, USPS, and Yellow Freight. The System 1 is
7 completely expandable and scalable to include additional Carriers.
8

9 2. System Configuration and Architecture

10 In both the exemplary eCommerce and simplified Internet embodiments, as depicted
11 in FIG. 3, each User 7 (Shipper/Seller or Buyer/Bidder) has access to a computer 8, for
12 instance a personal computer ("PC"). The computer 8 is configured with a display device 9
13 that provides a display screen 10. The computer 8 is further configured with one or more user
14 input devices, such as, for example, a keyboard 11 and a mouse 12. The computer 8 is also
15 configured with a printing device 13, such as a laser printer. The computer 8 may also be
16 configured with a scale 1024 and a bar code reader 1027.

17 Users access 1003 and browse the Internet 15 using a web browser 14 that generally
18 resides and is executed on the user's PC 8. The web browser 14 is a computer program or set
19 of computer instructions that allows the Shipper/User 7 to retrieve and render hyper-media
20 content from one or more Server computers, e.g., 20a-21z available over the Web. Suitable
21 commercially available web browsers include, e.g., Netscape's NavigatorTM and Microsoft
22 Internet ExplorerTM.

23 FIG. 4 is a simplified schematic diagram of a user's computer and the interface
24 between the user's computer and the System servers, such as 20a-21z in FIG. 3, using the
25 Internet in an exemplary embodiment of the invention in an Internet environment. PCs 8a-8n
26 are used by the Shippers and are connected to the Internet 15 through communication links
27 1003a-1003n respectively. Optionally, a local network 1004 may serve as the connection
28 between some of the PCs 8a-8n, such as the PC 8a, and the Internet 15. Servers 20a-21z are
29 also connected to the Internet 15 through respective communication links.

1 Continuing with FIG. 4, each of the PCs 8a-8n includes a central processing unit
2 ("CPU") 1020a for processing and managing data; user input devices such as a keyboard 11a
3 and a mouse 12a for inputting data and a main memory 1023a such as a Random Access
4 Memory ("RAM"). Information in text, graphic and other forms is displayed on the display
5 monitor ("CRT") 9a under the control of the CPU 1020a. A communication device 1028a,
6 such as a modem, provides access 1003a to the Internet 15. In some embodiments, one or
7 more Input/Output ("I/O") devices, such as a printer 13a, scale 1024a, or a bar code reader
8 1027a are configured with the PC.

9 FIG. 5 is a graphic representation of an exemplary configuration of the System in an
10 exemplary eCommerce embodiment of the invention depicting interfaces with Carriers
11 through Carrier Servers, e.g., 23-2 through 27-2, and Shippers/Users through User Input, e.g.,
12 18. When a Shipper/User ships a package using the System 1, one or more of the System's
13 Servers, e.g., 21a-21n, create a new System tracking number 19. When a new System
14 tracking number is created, one of the System's Database Servers, e.g., 20a-20n, adds a new
15 package record with the newly created System tracking number to a Package Table 28. The
16 Package Table 28 resides in the System database 22 and contains package records for System
17 processed packages. The System database may be stored on any storage medium, such as but
18 not limited to, RAM, hard drive, disk drive, tape drive, or other memory device. An
19 exemplary embodiment of the Package Table contains the following information: 1) Package
20 Tracking State ID; 2) Package Shipping State ID; 3) Actual Delivery Time; 4) Delivered To
21 information; 5) Shipping Date; 6) Carrier Tracking Number; 7) System Tracking Number; 8)
22 Carrier ID; 9) Actual Package Weight; 10) Service Description; and 11) Package OID. The
23 content of these fields are described further below.

24 As depicted in FIG. 5, using the Carrier's Internet URL, the System 1 (labeled
25 "iShip.com" in FIG. 5) then makes an HTTP (HyperText Transfer Protocol) connection over
26 the Internet 15 to the Carrier's web server, e.g., 23-2, 24-2, 25-2, 26-2, or 27-2, using the
27 URL information for the particular Carrier's web server.

28 The World Wide Web (WWW or Web) is an access protocol for HTTP (HyperText
29 Transfer Protocol is the communication protocol used by the Internet). The unique

1 identifier for a Server computer is called the IP (Internet Protocol) address; the unique
2 identifier for a web site (web page) is called the URL (Uniform Resource Locator). A URL
3 indicates, among other things, where the Server is located, the location of the web site on the
4 Server, the name of the web page and the file type of each document.

5 Depending upon the Carrier, the System's 1 request and report interface with the
6 Carrier's web server is programmed in HyperText Markup Language ("HTML") (e.g., 24-1,
7 25-1, 27-1), Extensible Markup Language ("XML") (e.g., 26-1), or both HTML and XML
8 (e.g., 23-1), described by way of example. Examples of XML formatted requests and
9 responses with respect to Carrier interface communications are described below in connection
10 with, and depicted in, FIGS. 66 and 67.

11 While the Shipper's/Seller's PC is connected to the Internet 15, a Shipper/Seller may
12 enter the System's 1 Internet interface in one of several ways. The two principle ways
13 discussed herein and described below are: 1) by entering an Internet address, e.g., URL, to the
14 System's home page; or 2) by clicking on an HTML link in an eCommerce/eAuction
15 provider's Web site that contains the URL address to one of the System's Internet pages, for
16 instance, an initial User registration page. A User may enter the System 1 in other ways,
17 among which include a direct communication interface between the User's computer system
18 and the System 1.

19 FIG. 6 is a graphic representation depicting an alternate view of the System
20 comprising the System Data Center's Server Computers 20a-20n and 21a-21z, the System
21 Database 22, and the System's interfaces with Seller and Buyer computers 8a-8n, Carrier
22 Server computers 23-2 through 27-2, and eCommerce/eAuction Providers 28a-28n, via the
23 Internet 15.

24 FIG. 7 is a simplified graphic representation of an exemplary configuration of the
25 System, and relationships between the System and Carriers and Shippers/Users, in an
26 exemplary simplified Internet embodiment of the invention. As depicted in FIG. 7, multiple
27 servers 20a-21z are provided in a Network Operations Center ("NOC"). At least one of the
28 Servers 20a-21z can handle multiple telecommunications connections such as over the
29 Internet 15 at one time. In the embodiment of the NOC depicted in FIG. 7, one Server 20a

1 provides the computer resources to perform Proxy & Firewall functions between the Internet
2 15 and the NOC; one Server, e.g., 21n provides the computer resources to act as the NOC
3 Client Server; one Server, e.g., 21s provides the computer resources to act as the Tracking
4 Server to obtain Carrier tracking information 1019 from the respective carrier's to provide to
5 Shippers over the Internet 15; one Server, e.g., 20a provides the computer resources to act as
6 the Database Server to access data from one or more databases 22 of information; one Server,
7 e.g., 21t provides the computer resources to act as the Shipping Server; one Server, e.g., 21m
8 provides the computer resources to act as the Web Server; and one Server, e.g., 21z provides
9 the resources to provide other services, such as the upload of manifest data 1018 to the Carrier
10 Host Systems, 23-2 through 23-7.

11 It should be understood that the overview configurations of the System depicted in
12 FIG. 5, 6 and 7 are exemplary. For example, the depiction of Server 20a in FIG. 7 as having
13 access to one or more databases 22 is not a limitation of the invention; in alternative
14 embodiments, such as depicted in FIG. 5, any or all of the Servers, 20a-20n, have access to
15 databases and external storage medium.

16 Continuing with FIG. 7, the Servers 20a-21z are connected to or otherwise capable of
17 communicating through, a communications network such as a global communications
18 network such as the Internet 15, which is in turn connected to, or capable of communicating
19 with one or more Personal Computers ("PC") or other like devices, e.g. 8a, 8b, . . . 8n.

20 Continuing with FIG. 7, Users access and browse the Web using a web browser that
21 generally resides and is executed on the user's PC, e.g., 8a, 8b, 8c. . . 8n (and as were
22 depicted in FIG. 4).

23 The Internet works based on a client/server model. The present invention uses the
24 client/server model to support the communication with and processing for each of multiple
25 Shippers. For example, as depicted in FIG. 7, the Servers 20a-21z are the server side of the
26 client/server model; each Shipper's PC 8a, 8b, . . . 8n is a client. The present invention uses
27 the web browser with which each Shipper's PC accesses the Internet to perform certain
28 functions as further described herein.

29 Web sites are locations on Servers, such as one or more of the Servers, 20a-21z, that

1 are accessible through the Internet 15. The Servers 20a-21z host one or more web sites which
2 are accessible by Shipper users with PCs (e.g., 8a, 8b, . . . 8n) connected with the Internet 15.

3 Carrier Rules, Shipper account information and other content is stored by the Servers,
4 e.g., 20a in databases e.g. 22. Shippers with PCs (e.g., 8a, 8b, . . . 8n) connected to the
5 Internet 15 access Carrier Rules, Shipper account information and other content that is stored
6 by the Servers, e.g., 20a in databases e.g. 22 through a User Interface, which is described in
7 detail below.

8 An overview of an exemplary System architecture is depicted in FIG. 8. The
9 overview depicted is exemplary and meant to be illustrative; it is not a limitation of the
10 invention. As depicted in FIG. 8, one embodiment of the invention uses a three-tiered
11 architecture.

12 The Data Management Tier 1201 is comprised of a Database Storage component 1202
13 that in the embodiment depicted uses an SQL Server; a Message Queue Storage component
14 1203 that in the embodiment depicted uses MS Message Queue; and a File Storage
15 component 1204 that in the embodiment depicted uses NTFS, and DFS. Each of the Database
16 Storage component 1202, the Message Queue Storage component 1203, and the File Storage
17 component 1204, communicate with the Component Tier 1208 of the System architecture,
18 communications by each component with the Component Tier 1208 represented by elements
19 1205, 1206 and 1207 respectively. According to the embodiment depicted in FIG. 8, the
20 Server Components of the Component Tier 1208 use C++ programming language and COM
21 Objects.

22 The Application Tier 1212 of the System Architecture is comprised of a Web Shipper
23 Client component 1213 (which uses HTML, ASP and JavaScript), the NOC Administration
24 component 1214 (which uses HTML, ASP, VB, and C++), and the Web Shipping Station
25 component 1215 (which uses HTML, ASP, JavaScript, C++, and ActiveX Controls). Each of
26 the Web Shipper Client component 1213, the NOC Administration component 1214, and the
27 Web Shipping Station component 1215 communicate with the Server Components of the
28 Component Tier 1208 as represented by the communication elements 1209, 1210 and 1211
29 respectively.

1 In one embodiment, the System is implemented in an NT environment. The
2 description of the System as being implemented in an NT environment is exemplary and is
3 not a limitation of the invention.

4

5 3. Menu Architecture

6 In both the exemplary eCommerce and simplified Internet embodiments, a User can
7 enter the System by entering an Internet address, e.g., a URL, to the System's home page
8 using the User's client web browser.

9 FIG. 9 is a graphic representation of an exemplary menu architecture as would be
10 displayed on an exemplary home page in an exemplary eCommerce embodiment of the
11 System 1 as viewed by the User on a display device, e.g., 9 and 10 as depicted in FIG. 3 and
12 9a as depicted in FIG. 4, connected to the User's Computer, e.g., 8 as depicted in FIG. 3 and
13 8a as depicted in FIG. 4. The term display as used herein will be understood by those with
14 ordinary skill in the art to include visual display on a display device, e.g., 9 and 10 as depicted
15 in FIG. 3 and 9a as depicted in FIG. 4, connected to the User's Computer, e.g., 8 as depicted
16 in FIG. 3 and 8a as depicted in FIG. 4.

17 Other menu configurations and descriptions can be implemented without departing
18 from the spirit of the invention. As depicted in FIG. 9, a main menu bar 34 presents several
19 selection options, including Home 30a, Sell It 31a, Ship It 32a, and Track It 33a. If a User
20 selects, such as by using a keyboard device 11 as shown in FIG. 3, 11a as shown in FIG. 4, or
21 a mouse device 12 as shown in FIG. 3, 12a as shown in FIG. 4, the Home 30a option, the
22 System 1 will display a Home submenu 30b.

23 References to a User selecting will be understood by those with reasonable skill in the
24 art to include selection using a user input device, such as a keyboard device 11 as shown in
25 FIG. 3, 11a as shown in FIG. 4, or a mouse device 12 as shown in FIG. 3, 12a as shown in
26 FIG. 4, connected to the User's Computer, e.g., 8 as depicted in FIG. 3 and 8a as depicted in
27 FIG. 4.

28 Using the exemplary menu architecture depicted in FIG. 9, if the User selects the Sell
29 It 31a option, the System 1 will display a Sell It submenu 31b. If the User selects the Ship It

1 option, the System 1 will display a Ship It submenu 32b. If the User selects the Track It 33a
2 option, the System 1 will display a Track It submenu 33b.

3 In an exemplary simplified Internet embodiment of the invention, the Main Menu
4 would not provide a Sell It 31a application or the submenus and screens associated with the
5 Sell It 31a application.

6

7 **C. THE SELLER'S EXPERIENCE**

8 In an exemplary eCommerce embodiment of the System, if the User enters the System
9 through a link from a Provider, the System 1 will ask the User to log in. (A User that is a
10 Buyer/Bidder that enters the System with a particular Buyer/Bidder URL (Universal Resource
11 Locator), such as through a hypertext e-mail link as is discussed below, is not required to
12 follow the log in procedure.) The log in and registration processes described below are also
13 provided in a similar manner by some simplified Internet embodiments.

14 When a User attempts to log in, the System 1 will attempt to validate the User's log in
15 identification and password. If the User's log in is successful, the System 1 will prompt the
16 User to select one of the available menu options. Otherwise, the System 1 will prompt the
17 User to register and will display the first of several information collection screens to prompt
18 the User through the registration process. Following is a description of the registration User
19 Interface and the associated System 1 processing in an exemplary eCommerce embodiment of
20 the invention.

21 FIGS. 10a through 10e are high level logic flow diagrams depicting the logic flow for
22 processing both Shipper/Seller and Buyer/Bidder information in an exemplary eCommerce
23 embodiment of the invention. An overview of FIGS. 10a through 10e is provided
24 immediately below for context. However, the detailed description of FIGS. 10a through 10e is
25 provided in conjunction with the detailed user interface screens depicted in summary on
26 FIGS. 10a through 10e. Accordingly, the description of FIGS. 10a through 10e is provided
27 gradually below with intervening descriptions of the details concerning the user interface
28 screens described in more detailed FIGURES that are also described below.

29 FIG. 10a depicts general Seller/Shipper/User registration procedures. FIG. 10b depicts

1 eCommerce/eAuction Seller registration procedures, including the Creation of a Link that the
2 Seller can copy and paste in the Seller's Web page description of the item to be sold/shipped.
3 FIG. 10c depicts the actual sales of the item to be shipped and depicts the Buyer experience of
4 viewing the shipping rates and times comparison provided by the System and purchasing or
5 bidding on the item as the case may be. FIG. 10d depicts the collection of shipping and
6 payment information by the Seller and the System 1 from the Buyer. FIG. 10e depicts post
7 sale shipment and payment processing, tracking and notification. The components of each of
8 FIGS. 10a through 10e are discussed in detail below.

9 FIG. 10a depicts general User registration procedures. As depicted in FIG. 10a, the
10 System 1 displays a registration introduction screen 41 to prompt a new eCommerce/eAuction
11 Seller 40 to register with the System 1.

12 FIG. 11 is a graphic representation depicting an exemplary embodiment of a
13 registration introduction screen 41 depicted in FIG. 10a. As depicted in FIG. 11, the
14 registration introduction screen 41 displays introductory text 101 that prompts the User to
15 proceed to the Next screen to provide certain information, such as the User's e-mail and
16 return address and to identify the Carriers with which the User wishes to ship. The User is
17 instructed to press the Next button 102 if the User is ready to proceed with registration. It
18 will be understood by those with ordinary skill in the art that a User "presses" or "clicks" an
19 onscreen button by using a user input device, such as a keyboard device 11 as shown in FIG.
20 3, 11a as shown in FIG. 4, or a mouse device 12 as shown in FIG. 3, 12a as shown in FIG. 4,
21 connected to the User's Computer, e.g., 8 as depicted in FIG. 3 and 8a as depicted in FIG. 4.

22 Alternatively, the User can "press", or "click", on the Reset button 103 which, when
23 clicked, re-initializes the registration application and returns the User to the Introduction
24 page; the Cancel button 104, which when clicked returns the User to the Logged Off Home
25 page; or the Help button 105, which when clicked, displays contextual help text in a pop-up
26 window.

27 If the User clicks on Next button 102, if the User is using a browser that is not
28 supported by the System 1, the System 1 prevents the User from continuing and displays a
29 message to the User that the User's browser is unsupported. Otherwise, if the User clicks the

1 Next button 102, the System 1 will display the next screen 42 in the registration process as
2 depicted in FIG. 10a, which is a User address collection screen.

3 FIG. 12 is a graphic representation depicting an exemplary embodiment of a User
4 address collection screen. As depicted in FIG. 12, the System prompts the User to provide
5 the User's name 106, e-mail address 107, company name 108, street address 109, floor/room
6 number 110, department name 111, city 112, state 113a (using a pull down menu button
7 113b), telephone number 114, zip code 115, and fax number 116. As with the previous
8 registration introduction screen 41, the Next 102, Reset 103, Cancel 104, and Help 105
9 buttons are provided with results similar in nature to the operations of these respective buttons
10 as described above. In addition, a Back button 117 is provided. If the User clicks the Back
11 button 117, the System returns the User to the screen from which the User entered the present
12 screen, in this case, the registration information screen 41. If the User clicks the Next button
13 102, the System performs validation edits on the data entered. If any required fields have not
14 been completed, or if any fields contain data found to be in error, the System notifies the User
15 and requests that corrected data be entered. Because of the similar nature from screen to
16 screen in the System with which the Back 117, Next 102, Reset 103, Cancel 104 and Help
17 105 buttons operate, the operation of these buttons will not be further described.

18 If the data entered is successfully validated, the System displays the next screen,
19 which in this case is the Shipping Location screen 43 as depicted in FIG. 10a. FIG. 13 is a
20 graphic representation of an exemplary embodiment of a Shipping Location screen 43. In the
21 Shipping Location screen 43, the System prompts the User to identify a default location 120a
22 from which the User will typically ship packages and to provide the city, state, and zip code
23 of that location 120b. The Shipping Location screen provides a shipping location input field
24 121a and a shipping location pull down menu button 121b. If the user clicks on the shipping
25 location pull down menu button 121b, the System will display a selection menu of possible
26 shipping locations. Example shipping location selection options include: self-service
27 center/drop box; staffed shipping counter; my location by calling for pickup; my location
28 through regular pickup; and my local Mail Boxes Etc. center. Exemplary shipping location
29 options are described further below with regard to FIG. 26.

1 If the User selects the "my local Mail Boxes Etc. center" then a Locations screen is
2 displayed. FIG. 14 is a graphic representation depicting an exemplary embodiment of a
3 Locations screen. The Locations screen displays a Locations button 126, that when clicked,
4 causes the System to display a list 127 of Mail Boxes Etc. centers in the area in and around
5 the User's zip code. Each entry in the list 127 contains the name and address of the location
6 128, pickup times 129, and comments 130. The User will be asked to highlight and thereby
7 select one of the centers. According to the User's selection, the System will display
8 additional comments if appropriate, e.g., 131. Otherwise, for the other shipping location
9 selection options, the User is required to enter the city, state, and zip code of the location.

10 FIG. 15 depicts an alternative exemplary embodiment of a Locations screen as a
11 screen inset. If the Shipper selects a particular "ship center" type from a shipping location pull
12 down menu (not shown) as the shipping location, the User Interface will display, as shown in
13 FIG. 15, three elements: 1) a table 1058 with the Location Address, Pickup Times and
14 Comments Area; 2) a Browse button 1059; and 3) a destination Zip Code field 1042. Clicking
15 the Browse button 1059 will display additional Drop Off Locations in a Pop-up window (not
16 shown).

17 Returning to FIG. 14, if the User clicks the Next button 102, and if the data entered in
18 the Shipping Locations screen is successfully validated, the System displays the next screen,
19 which in this case is the UPS registration screen 44 as depicted in FIG. 10a. FIG. 16 is a
20 graphic representation of an exemplary embodiment of a UPS registration screen 44. If the
21 User indicates that the User will ship through the System using UPS and that the User already
22 has a UPS account 140, the User will be asked to provide the UPS account number 141 and
23 the scheduled pickup time 142a, a.m. 142b, and p.m. 142c. The System provides the User
24 with other UPS shipping options, such as dropping the UPS shipments at a shipping center
25 such as a Mail Boxes Etc 143, or not using the System for shipping UPS 144. Depending on
26 the User's selection, the System provides appropriate special circumstance notification 145 if
27 required.

28 If User clicks the Next button 102, and if the data entered in the UPS registration
29 screen is successfully validated, the System displays the next screen, which in this case is the

1 eCommerce registration introduction screen 45 as depicted in FIG. 10a. FIG. 17 is a graphic
2 representation of an exemplary embodiment of an eCommerce registration introduction
3 screen 45. The eCommerce registration introduction screen 45 provides a textual description
4 150 of the procedure to setup selling preferences for eCommerce transactions.

5 If the user clicks the Finish button 152 on the eCommerce registration introduction
6 screen 45, the System finalizes the registration process 46 and sends the User to a registration
7 complete screen 48a as depicted in FIGS. 10a and 10b. FIG. 10b depicts
8 eCommerce/eAuction Seller registration procedures, including the Creation of a Link that the
9 Seller can copy and paste in the Seller's Web page description of the item to be sold/shipped.

10 FIG. 18 is a graphic representation of a registration complete screen 48a. The System
11 informs the User that the User is registered 153 and that the User's ID and password will be
12 e-mailed to the User 154. The System summarizes the registration information for the User
13 155 and instructs the User 156 to click on the Close button 157 to log on to the System for the
14 first time. If the User clicks on the Close button 157 and logs on to the system, a Welcome
15 screen, e.g., 48b as depicted in FIG. 10b, is displayed from which the User can request that a
16 Seller's Link be created.

17 If the user clicks the Continue button 151 on the eCommerce registration introduction
18 screen 45, the System will display 47 the next screen, which is an eCommerce registration
19 screen 49 as depicted in FIGS. 10a and 10b.

20 FIG. 19 is a graphic representation of an exemplary embodiment of the Seller's
21 Carrier/Service Preferences Screen 49 as depicted in FIG. 10b. With the Seller's
22 Carrier/Service Preferences Screen 49, the System requests 159 the User to identify the
23 Carriers and the Services of each Carrier that the User is willing to allow Buyers/Bidders to
24 choose for shipping the item(s) to be shipped. Each supported Carrier, e.g., Airborne Express
25 160, FedEx 162, UPS 164, and USPS 166 is available for selection by the User. Further, each
26 service offered by a particular Carrier is also available for User selection. For example, for
27 Airborne Express, Overnight Air Express 161a, Next Afternoon Service 161b, and Second
28 Day Service 161c are available for User selection. The User selects a Carrier or a service by
29 clicking on the selection button, e.g., 160.

1 FIG. 20 is a graphic representation of an alternative embodiment of the Seller's
2 Carrier/Service Preferences Screen 49. In the example depicted in FIG. 20, the User has
3 selected all Carriers and all services for all Carriers.

4 If the User clicks the Next button 102 on the Seller's Carrier/Service Preferences
5 Screen 49, the System will display the next screen, which is Seller's Charges and Payment
6 Preferences Screen 50 as depicted in FIG. 10b. FIG. 21 is a graphic representation of an
7 exemplary embodiment of a Seller's Charges and Payment Preferences Screen 50. The
8 System asks the User to select a format for presentation of shipping charges to the
9 Buyer/Bidder 169. The User can select any one of the following choices: 1) the item cost
10 includes shipping charges 170; 2) buyer pays actual shipping charges 171; or 3) buyer pays
11 shipping plus additional charges 172.

12 If the User chooses the option that the buyer pays shipping charges plus additional
13 charges, then the User must select the types of additional charges that apply, and the value to
14 be added: 1) add percentage of shipping cost 173 and specify percentage 174; 2) add fixed
15 handling charge 175 and specify the amount of the handling charge 176; and/or 3) add System
16 Service Fee 177.

17 The System also requires that the User select at least one payment method: Visa 179a,
18 American Express 179b, Personal Check 179c, Cashier's Check 179d, MasterCard 179e,
19 Discover 179f, and/or Money Order 179g. The User is also given the option of requesting
20 that the System collect credit card information and provide the information to the User so that
21 the User can process the information 180.

22 If the User clicks the Finish button 152 on the Seller's Charges and Payment
23 Preferences Screen 50, then the System will display the Registration Completion Screen 48a
24 previously described above.

25 FIG. 22 is a graphic representation of an alternative embodiment of the Seller's
26 Charges and Payment Preferences Screen 50 depicting User selections of some of the
27 available options. If the User clicks the Save button 181, the System validates the
28 information, saves the User's choices and specifications, and completes the registration
29 process.

1 Similarly, with respect to FIG. 21, if the user clicks the Finish button 152 on the
2 Seller's Charges and Payment Preferences Screen 50, the System finalizes the registration
3 process and displays the registration complete screen 48a as depicted in FIG. 10b. As was
4 previously described above, in the registration complete screen 48a, the System summarizes
5 the registration information for the User 155 and instructs the User 156 to click on the Close
6 button 157 to log on to the System for the first time. If the User clicks on the Close button
7 157 and logs on to the system, a Welcome screen, e.g., 48b as depicted in FIG. 10b, is
8 displayed from which the User can request that a Seller's Link be created.

9 FIG. 23 is a System interactivity data and logic flow diagram depicting an exemplary
10 embodiment of the Seller's eCommerce Registration process. FIG. 23 depicts the interactivity
11 between the User's client machine (Seller's computer) 8 and the System's server computers
12 20a-21z. Also depicted are the data accesses to the System database 22. An arrow 230
13 extending from the top of the diagram and pointing down towards the bottom of the figure
14 graphically represents the passage of time.

15 As depicted in FIG. 23, the Seller clicks on the Pricing Preferences submenu option
16 231 (equivalent to 31b-1 as depicted in FIG. 24 under the Sell It option 31a of the main menu
17 34 as depicted in FIG. 9). The System servers 20a-20n then access the System database 22 to
18 determine whether the Seller's preferences have previously been set 232. In the case that no
19 preferences are found for the specified Seller 233, the System servers 21a-21z generate the
20 signals necessary to display the Carriers and Services Screen 234 to the Seller's computer 8.
21 The Seller selects the Seller's preferred Carriers and Services and clicks the Next button 235
22 returning control to the System servers 21a-21z. The System servers 21a-21z next generate
23 the signals necessary to display the Charges and Payment screen 236 to the Seller's computer
24 8. The Seller selects the Charges and Payment options and clicks the Save button 237. The
25 System servers 21a-21z validate the Seller preference information and the System servers
26 20a-20n store the information on the System database 22. The System servers generate the
27 signals necessary to notify the Seller at the Seller's computer 8 that the Seller's preferences
28 have been saved 239.

29 There are different ways by which a User can request the System to create a Seller's

1 Link. One way is for the User to enter the System's home page, log in 48b, e.g., as depicted
2 in FIG. 10b, and click on the Sell It 31a, or equivalent, application on the main selection bar
3 34 as depicted in FIG. 9. Another way is to click on the System logo icon as provided in an
4 eCommerce/eAuction Provider's web site. There are other ways that a User can enter the
5 System. For instance, the eCommerce/eAuction Provider might provide a hyperlink to the
6 System web site.

7 If the User enters the System Web site, and clicks on the Sell It selection 31a, the
8 System presents either a submenu such as 31b as depicted in FIG. 9, or displays a default first
9 screen in the Sell It application, depending on the embodiment.

10 If the User has not completely registered for the System and for eCommerce shipping
11 processing, then the System prompts the User to complete the necessary registration process
12 by displaying a Registration Needs Completion screen 51 as depicted in FIG. 10b.

13 FIG. 24 is a graphic representation of a Registration Needs Completion Screen 51.
14 Similar to the screen depicted in FIG. 17, the System requests the User to provide the
15 necessary information by completing the information requested in subsequent screens 150-1.
16 If the User clicks the Next button 102, the System displays the Seller's Carrier/Service
17 Preferences Screen 49, and the Seller's Charges and Payment Preferences Screen 50 as
18 depicted in FIG. 10b.

19 Once the User has completed registration for the System and for eCommerce shipping
20 processing, the System allows the User to select the Create Link submenu option 31b-2 in the
21 Sell It Application 31a of the System. If the User selects the Create Link option 31b-2, the
22 System displays a Create a Seller's Link Screen 52 as depicted in FIG. 10b. FIG. 25 is a
23 graphic representation of an exemplary embodiment of a Create a Seller's Link Screen 52.

24 Before the System can create a Seller's link, the User must tell the System information
25 about the particular package that will be shipped. Accordingly, as depicted in FIG. 25, the
26 System asks the User to enter the shipping weight and value of the item to be shipped 190.
27 The User is asked to enter the Shipping Weight 191a.

28 FIG. 26 depicts an exemplary alternative embodiment of a screen for the input of
29 Shipper Parcel Specifications, which in the exemplary alternative embodiment depicted is

1 titled the Location and Package Screen. The Location and Package Screen depicted in FIG. 26
2 collects Shipper input similar to a portion of the information that which was described in
3 connection with FIGS. 13 and 25.

4 As shown in FIG. 26, the Shipper is asked to input the location 1040 from which the
5 parcel will be shipped. A pull down menu activation mechanism 1041 is provided to allow
6 the user to pull down a menu (not shown) of different shipping locations. It should be noted
7 that the exemplary selection mechanisms, e.g., “pull down menu”, “drop down selection”, and
8 others, described herein are used for illustrative purposes and are not a limitation of the
9 invention.

10 The Shipper activates the pull down menu by placing the cursor of the Shipper’s PC
11 over the pull down menu activation mechanism 1041 and leaving the cursor in the same
12 position for a certain period of time (this method of activating a selection mechanism will be
13 referred to herein as a “Pause Activation”). In alternative embodiments, the Shipper activates
14 the pull down menu by placing the cursor of the Shipper’s PC over the pull down menu
15 activation mechanism 1041 and clicking the Shipper’s user input device (this method of
16 activating a selection mechanism will be referred to herein as a “Click Activation”). It should
17 be understood that for each activation mechanism depicted in the User Interface of the Present
18 Invention, that the exemplary embodiments of the User Interface depicted herein use the
19 Pause Activation method; alternative embodiments use the Click Activation method.

20 References herein to “clicking” mean that the Shipper places the cursor of the
21 Shipper’s PC on the subject item and clicks the Shipper’s user input device.

22 If the Shipper activates the pull down menu activation mechanism 1041, a menu of
23 different shipping locations (not shown) appears in the Location area 1074 of the screen. The
24 Shipper then selects one of the shipping locations by placing the cursor of the Shipper’s PC
25 over a particular shipping location in the shipping location menu and clicking the Shipper’s
26 user input device, e.g., mouse.

27 It should be understood that for each selection mechanism depicted in the exemplary
28 embodiments of the invention, selection of a particular choice from such a selection menu is
29 made by the Shipper clicking the Shipper’s user input device.

1 There are two types of shipping locations, ship centers and customer drop offs. Ship
2 centers are those locations which refer to a database of specific locations, from which a
3 specific location from the available locations must be selected to determine rates, such as an
4 "iShip Center". Customer drop offs are those shipping locations from which a specific
5 location need not be selected to determine rates, such as a "drop box", "carrier counter" or
6 "call for pickup". The shipping location pull down menu displays each shipping location
7 category, e.g., iShip Center, other specific shipping center types, drop box, carrier counter,
8 call for pickup, etc.

9 As was described with regard to FIG. 15 above, if the Shipper selects a particular
10 "ship center" type from the shipping location pull down menu (not shown) as the shipping
11 location, the User Interface will display, as shown in FIG. 15, three elements: 1) a table 1058
12 with the Location Address, Pickup Times and Comments Area; 2) a Browse button 1059; and
13 3) a destination Zip Code field 1042. Clicking the Browse button 1059 will display additional
14 Drop Off Locations in a Pop-up window (not shown).

15 Returning to FIG. 26, if the Shipper selects a "customer drop off" as the shipping
16 location, the User Interface will display, as shown in FIG. 26, two elements: 1) Origin Zip
17 Code Field 1053; and 2) Destination Zip Code Field 1042.

18 For either class of shipping location, if an iShip Shipping Station will not be present at
19 the selected shipping location, the System displays a notice (not shown) to the customer
20 telling them that they must have a laser printer to ship using the specified location.

21 If the Shipper is Logged On to the System and has established an account, the System
22 will default the Shipping Location to the Shipper's specified Preferences which the Shipper
23 inputs (not shown) the first time that the Shipper logs into the System. If the Shipper's
24 specified Preference is a "customer drop off" location, the System populates the Origin Zip
25 Code with the Shipper's default Zip Code which the Shipper inputs (not shown) the first time
26 that the Shipper logs into the System.

27 If no location is selected by the Shipper, the System displays a message (not shown)
28 asking the Shipper to select a shipping location.

29 In the Package area 1075 of the screen depicted in FIG. 26 there are the following

1 controls or control groups: 1) "Packaging" which includes various types of parcel packaging ,
2 as shown in item numbers 1043-1047 and includes Length 1048, Width 1050 and Height
3 1049 which are required data fields for parcels designated by the Shipper as the type "Other
4 Packaging"; 2) Weight 1051 (If the Shipper specifies one of the recognized carrier packaging
5 types (Letter, Pak, Box, Tube) the field will be auto filled with "letter", "pak", etc.); and 3)
6 additional handling 1052. If "Letter" is selected the weight will be set by the System to 0.5
7 lbs. Otherwise, weight may be input by the Shipper (612, FIG. 27a) using a user input device
8 such as a keyboard, with weights ranging from 1 to 150 lbs. If a specific weight is selected or
9 input, the Packaging Type will be set to Carrier Box.

10 In order to identify the weight of the parcel to the System, in one embodiment of the
11 invention, the Shipper's PC is configured with a scale and the System communicates with the
12 Shipper's scale using the user's client web browser. FIGS. 27a through 27c depict the logic
13 flow for communications between the System and a Shipper's PC and a scale configured with
14 the Shipper's PC. As depicted in FIGS. 27a through 27c , the Shipper establishes in the
15 System certain information about the Shipper's PC configuration at the time the Shipper sets
16 up an Account 601. If the Shipper's PC is configured with a scale, the Shipper specifies scale
17 configuration information 602 such as: the make and model of scale, and the type of port
18 (e.g., serial or parallel) with which the scale is configured with the PC. Further, the System
19 provides storage and access 603 for the Shipper's scale configuration information in a
20 database 604.

21 Continuing with FIGS. 27a through 27c , the System supports various makes and
22 models of scales. Each scale make and model has a set of features and requirements for which
23 the System must be programmed in order for the System to communicate properly with each
24 particular scale. The System provides an ActiveX control dedicated to communications with
25 peripheral devices configured with client PCs ("Shipping Station ActiveX Control") 607.
26 Contained within the Shipping Station ActiveX Control is a table (the "scale table") 608
27 containing entries for each supported scale make and model and provides logic to process the
28 communication information for each scale make and model as appropriate. It should be
29 understood by someone skilled in the art that the Shipping Station ActiveX Control facilitates

1 communications with various devices on the client machine. The Shipping Station ActiveX
2 Control 607 and the scale table 608 are requested 606 by the web page (the “System/scale
3 interface”) containing the Weight field 1051 at the time that the Shipper activates 605 the
4 Weight field 1051. Once the web page requests the Shipping Station ActiveX Control 607,
5 the Shipping Station ActiveX Control 607 is automatically installed on the client 609. In the
6 event that the Shipping Station ActiveX Control is updated to facilitate the support of
7 additional scale makes and models, the Shipping Station ActiveX Control is automatically
8 reinstalled on the particular client PC the next time that the Shipper activates the Shipping
9 Station ActiveX Control.

10 Continuing with FIGS. 27a through 27c, the Shipper places 610 the Subject Parcel on
11 the scale, such as, e.g., the scale 1024a depicted in FIG. 4, and 1024n depicted in FIG. 7. The
12 Shipper activates the Shipping Station ActiveX Control by placing the cursor of the Shipper’s
13 PC on the Weight field 1051 (such as the Weight field 1051 depicted in FIGS. 15 and 26).
14 The System checks the Shipper’s scale configuration information to determine 611 whether
15 the Shipper’s PC is configured with a scale. If so, the System activates the System/scale
16 interface 613. Otherwise, the user may input the weight 613 in the Weight field 1051 as
17 depicted in e.g., FIG. 26.

18 In one embodiment of the System/scale interface aspect of the invention, the System
19 uses ActiveX control language and the client’s web browser, such as Internet Explorer
20 browser. Continuing with FIGS. 27a through 27c , using the Shipper’s scale configuration
21 information, the System calls Windows libraries 615 to open the serial or parallel port with
22 which the scale is configured, as the case may be and as is specified in the Shipper’s scale
23 configuration information. Windows is an operating system used with most PCs.

24 Continuing with FIGS. 27a through 27c , the System uses the information for the
25 particular scale make and model from the scale table 608 of scale makes and models to send a
26 communication query to the particular scale 616. Typically, the communication query
27 information required by a particular scale make and model is a particular set of characters.
28 Each scale make and model recognizes a unique set of characters as a request for a weight.
29 Accordingly, the appropriate set of characters that means a request for weight to a particular

1 scale make and model is stored in the scale table for a particular scale make and model.
2 Continuing with FIGS. 27a through 27c, after a proper query, a scale will return a data
3 stream containing the weight of the parcel 617. Depending on the scale make and model,
4 other types of information may be contained in the return data stream. The System accesses
5 the scale table 608 to interpret 618 the return data stream according to the scale make and
6 model rules as stored in the scale table and as programmed in the Shipping Station ActiveX
7 Control.

8 Other scale communication information is contained in the scale table for each scale
9 make and model, including, for example: the character string that communicates a request as
10 to whether or not the weight is stabilized; the default contents of the return data stream of the
11 weight from a particular scale make and model; and the character string to request that the
12 scale send the weight mode with the return data stream. Weight mode is the mode with which
13 the scale measures weight (e.g., pounds, kilograms, etc.).

14 In one embodiment, as long as the Shipper's cursor remains on the Weight field 1051
15 (such as the Weight field 1051 depicted in FIGS. 15 and 26), the System polls the scale
16 repeatedly requesting the weight and requesting notification that the weight is stabilized 619.
17 Each time the System polls the scale, the System tests to determine 620 whether or not there
18 is a difference in the weight as compared with the last time that the System polled the scale.
19 If the System determines a difference in weight, then the System uses the Shipping Station
20 ActiveX Control to fire an event 621 to the client web browser to display on the User
21 Interface screen that the weight has changed.

22 In one embodiment, once the Shipper removes the cursor from the Weight field 1051,
23 the System stops polling the scale 622. If prior to the last polling to the scale, the scale
24 notifies the System that the weight has stabilized 623, the System will proceed with preparing
25 the Graphic Array if requested to do so by the Shipper 625. Otherwise, if the System
26 determines a difference in weight, the System notifies the Shipper that the weight is not stable
27 624.

28 The Shipper can use the Shipper's input device connected to the Shipper's PC, such as
29 a mouse 12a, as depicted in FIG. 4, to position the cursor on one of the navigational buttons

1 102-105 shown at the bottom of the screen as depicted in FIG. 26 described above. If the
2 Shipper clicks the "Next" button 102, the System will display the next Screen, which, in the
3 embodiment depicted, is the Rates and Times Screen (an exemplary embodiment of which is
4 depicted in FIG. 36a described below). If the Shipper clicks the "Reset" button 103, the
5 System will clear the values displayed on the current screen. If the Shipper clicks the
6 "Cancel" button 104, the System will cancel the Shipper's Parcel Specifications and the
7 Shipper's service request. If the Shipper clicks the "Help" button 105, the System will
8 display help text to explain to the Shipper the appropriate possible actions.

9 Returning to FIG. 25, Shipping Weight can be input by clicking the Shipping Weight
10 pull down menu button 191b which will cause a display of commonly selected weights, such
11 as "Letter - 0.5 lbs" and weights from 1 to 150 lbs. Alternatively, in one exemplary
12 embodiment, the User inputs the weight of the package by placing the actual package on a
13 scale that is configured with the User's computer and with which the System is programmed
14 to interact as disclosed above

15 The User is also asked to identify whether the item is irregular or requires non-
16 standard packaging 192. Regarding Loss Protection, the default is Basic Coverage 193. If
17 the User instead selects Declared Value 194, the User is required to enter a value 195 greater
18 than \$0.00 and less than or equal to \$50,000.00.

19 Once the User has entered the package specific information 191a-195, as described
20 above, the User can request the System to preview the shipping charges that will be presented
21 to a Buyer/Bidder. To do so, the User may either: 1) choose an example destination 196a and
22 uses the destination pull down menu button 196c to select a sample destination city 196b
23 from a list of cities; or 2) choose to enter an example zip code 197a by entering a sample zip
24 code 197b. Then the user clicks the Preview button 198 to display the sample charges. If a
25 sample destination city was selected from the pull down list of cities, once the User clicks the
26 Preview button 198, the System identifies the appropriate zip code for the selected city and
27 moves that zip code into the Destination Zip code field 197b.

28 FIG. 28 depicts an exemplary further supplemental Shipper Parcel Specification
29 Screen such as in a simplified Internet embodiment of the invention, which in the

1 embodiment depicted is titled the Service Options Screen. The Service Options Screen
2 provides for Shipper input of Service Option Selections and displays a Single Day Rate
3 Graphic Array. The Service Options supported in the depicted embodiment are: 1) Loss
4 Protection (Declared Value) 1076; 2) E-Mail Delivery Notification 1083; 3) Verbal Delivery
5 Confirmation 1085; 4) "Service must be guaranteed" 1086; 5) "Destination is a Residence"
6 1087; and 6) "Signature not Required" 1088. Selection of an option on the screen depicted in
7 FIG. 28 is accomplished by the Shipper placing the cursor on the option selection mechanism
8 and clicking the Shipper's user input device.

9 With respect to the Loss Protection (Declared Value) Service Option, if the Shipper
10 selects the Declared Value Option 1081, the Shipper must enter a value 1082 of greater than
11 \$100.00, and equal to or less than \$50,000.00. The default for Loss Protection is "Basic
12 Coverage" 1080 which provides automatic coverage for the first \$100.00 of Declared Value
13 If the Declared Value option 1081 is selected and a value 1082 entered, the System will
14 update the Single Day Rate Graphic Array 1096 with changes for each individual Carrier's
15 rates, e.g., 1097.

16 It should be noted that the Carrier Rules described herein, such as in the case of the
17 defaults, threshold values, and the like concerning Loss Protection, are contained in the
18 Carrier Rules database (e.g., 1404a through 1404n as depicted in FIG. 38), and for special
19 cases, are programmed as part of the System. Carrier Rules vary from Carrier to Carrier;
20 Carrier Rules are subject to change. The Carrier Rules described herein are therefore not a
21 limitation of the invention.

22 With respect to the E-Mail Delivery Notification Option, two controls are provided - a
23 checkbox 1083 and an "E-Mail Others" button 1084. If the E-Mail Delivery Notification
24 Option checkbox 1083 is checked the rates, such as those displayed in the Single Day Rate
25 Graphic Array 1096, will be updated to reflect each Carrier's charges for the provision of E-
26 Mail Notification services. If Shipper clicks the "E-Mail Others" button 1084, the following
27 will occur: 1) If the checkbox 1083 has not already been checked, it will be checked by the
28 System; and 2) an "E-Mail Others" pop-up window will be displayed by the System as
29 depicted in FIG. 60 and described below.

1 With respect to the Verbal Delivery Confirmation Option, if the Verbal Delivery
2 Confirmation Option checkbox 1085 is checked, the rates, such as those displayed in the
3 Single Day Rate Graphic Array 1096, will be updated to reflect each Carrier's charges for the
4 provision of Verbal Delivery Confirmation services. If the Verbal Delivery Confirmation
5 Option checkbox 1085 is checked, the System will use the Shipper's Return Address Phone
6 and Name as supplied by the Shipper during Account setup (not shown), as the information to
7 be supplied to UPS.

8 With respect to the "Service must be guaranteed" Option, if the "Service must be
9 guaranteed" Option checkbox 1086 is checked, the rates and Carrier/Service cells, such as
10 those displayed in the Single Day Rate Graphic Array 1096, will be updated to remove any
11 Carrier/Service cell for which service is not guaranteed.

12 With respect to the "Destination is a Residence" Option, if the "Destination is a
13 Residence" Option checkbox 1087 is checked, the rates and Carrier/Service cells, such as
14 those displayed in the Single Day Rate Graphic Array 1096, will be updated to remove any
15 Carrier/Service cell which does not provide service to Residence Destinations.

16 With respect to the "Signature not Required" Option, in the embodiment depicted in
17 FIG. 28, if the "Signature not Required" Option checkbox 1088 is checked, no change will be
18 applied to the rate graphic. In the embodiment depicted in FIG. 28, the "Signature not
19 Required" Option is a FedEx only flag and does not effect any other Carrier or any Carrier
20 rate.

21 The Single Day Rate Graphic Array as displayed in FIG. 28 is similar to the Graphic
22 Array described below as depicted in FIG. 36a in that the Single Day Rate Graphic Array is
23 dynamically dimensioned and reflects the Carriers that provide the delivery service requested
24 by the Shipper for a particular Subject Parcel. As with the Graphic Array, the embodiment of
25 the Single Day Rate Graphic Array depicted in FIG. 28 uses a color-coded legend 1091 and
26 color to distinguish the rates for each Carrier from the rates for the other Carriers.

27 The Single Day Rate Graphic Array contains a number of elements. First, the selected
28 delivery date 1090 is displayed at the top of Single Day Rate Graphic Array. The displayed
29 date is bordered on the left 1098 and right 1099 with arrow buttons. If the Shipper clicks the

1 left arrow button 1098, the date will go back one valid delivery date. If the Shipper clicks the
2 right arrow button 1099, the date will move forward one valid delivery date. The range of
3 valid delivery dates is determined by the System according to the Expected Ship Date
4 (element 1060 as depicted in FIG. 36a).

5 Sorted, valid delivery times 1093-1 through 1093-5 for all valid dates are displayed
6 down the left side of the Single Day Rate Graphic Array. Above the delivery times are up
7 and down arrow buttons 1100a and 1100b respectively. If an up or down arrow button (1100a
8 and 1100b respectively) is pressed, the list of available times 1093-1 through 1093-5 will
9 scroll up or down appropriately, if and only if the list exceeds the Single Day Rate Graphic
10 Array display area 1096.

11 A Ship Location Type field 1066 and Ship Location drop down menu activator 1067,
12 are displayed below the Single Day Rate Graphic Array and operate in a manner as described
13 in FIG. 36a. If the Shipper changes the Ship Location selection, the System will update the
14 Single Day Rate Graphic Array to reflect any rate changes or surcharges that result from the
15 change.

16 As with the Rates and Times Screen (described below as depicted in FIG. 36a), the
17 Single Day Rate Graphic Array is color coded by Carrier in a color-coding legend 1091 - that
18 is, a distinct color is visually depicted in a legend as corresponding to each respective Carrier.
19 Carrier cell entries, e.g., 1097, for each Carrier are presented in a color-coded display of the
20 available rate, by date and time.

21 As depicted in FIG. 28, the color for the Carrier identified as "Airborne" 1140b is
22 depicted in the color coding legend 1091 with a right-diagonal cross-hatch symbol 1140a.
23 Accordingly, each Carrier cell entry, e.g., 1097, contained within the Single Day Graphic
24 Array with a particular distinct color, in this case depicted with the right-diagonal cross-hatch
25 symbol 1140a, corresponds to a delivery of the Subject Parcel supported by the Carrier
26 "Airborne" 1140b.

27 Each Carrier cell entry, e.g., 1097, contains a graphic element, e.g., 1097a, which
28 contains what is known as "ALT text". A Shipper viewing the Single Day Rate Graphic
29 Array online can place the PC's cursor on the graphic element, e.g., 1097a of a particular

1 Carrier cell entry, e.g., 1097, to display a pop-up screen (not shown) that displays the ALT
2 text for that particular Carrier cell entry. The ALT text contains information about the
3 Carrier, as described in FIG. 36a, such as the full Carrier name and the full Carrier service
4 name. The contents of the ALT text described herein is exemplary and is not a limitation of
5 the invention.

6 Appearin in each of each of the color-coded Carrier cell entries is a monetary value,
7 e.g., 1097b, of the price that the corresponding Carrier would charge to deliver the Subject
8 Parcel according to the time and date specified. For example, as depicted in FIG. 28, the
9 Carrier cell entry 1097, depicted with the right-diagonal cross-hatch symbol 1140a, contains
10 the amount \$9.00 (1097b). Accordingly, the amount \$9.00 (1097b) is the price that the
11 Carrier Airborne would charge to deliver the Subject Parcel at the identified time of 12:00
12 p.m. 1093-3 on the identified date of Monday, September 28, 1999 1090.

13 Similarly, as depicted in FIG. 28, the color for the Carrier identified as "FedEx" 1141b
14 is depicted in the color coding legend 1091 with a left-diagonal cross-hatch symbol 1141a.
15 Accordingly, each Carrier cell entry contained within the Graphic Array with the left-diagonal
16 cross-hatch symbol, e.g., 1107, corresponds to a delivery of the Subject Parcel supported by
17 the Carrier "FedEx."

18 Further, as depicted in FIG. 28, the color for the Carrier identified as "UPS" 1142b is
19 depicted in the color coding legend 1091 with a vertical cross-hatch symbol 1142a.
20 Accordingly, each Carrier cell entry contained within the Graphic Array with the vertical
21 cross-hatch symbol, e.g., 1108, corresponds to a delivery of the Subject Parcel supported by
22 the Carrier "UPS."

23 In the embodiment of the Service Options Screen depicted in FIG. 28, the navigational
24 buttons operate much the same as has been previously described except that clicking the
25 "Back" button 117 will display the previous screen, which in the embodiment depicted is the
26 Rates and Times Screen (FIG. 36a); clicking the "Next" button 102 will display the next
27 screen, which in the embodiment depicted is the Summary Screen (FIG. 48). The Shipper
28 must select a Carrier cell entry before the System will display the Summary Screen. To select
29 a Carrier cell entry, the Shipper places the cursor over the entry and clicks the user input

1 device. In an alternative embodiment, the Shipper double clicks a Carrier cell entry to select
2 the entry. Clicking the Reset button 103 will clear all fields in the Service Option Screen
3 depicted in FIG. 28 and return the display of the Location and Package Screen (as described
4 above with regard to FIGS. 15 and 26).

5 Returning to FIG. 25, once the User is satisfied with the previewed charges, the User
6 can create a Seller's link. To do so, the User must choose the type of Link, HTML 199 or
7 Web Address only 200, enter the Link Text 201 that will be displayed, and click the Go
8 button 202.

9 Once the User clicks on the "Go" button 202, the System generates an HTML
10 hyperlink and moves the HTML hyperlink in the "Link" box 203a. If the HTML hyperlink
11 text exceeds the space available on the Create a Seller's Link Screen, the User can click on
12 the up and down scroll buttons, 203b1 and 203b2 respectively.

13 FIG. 30 depicts an exemplary alternative embodiment of the Create a Seller's Link
14 screen. In this embodiment, the System collects the package specific information when the
15 Seller enters the System and then presents the screen as depicted in FIG. 30 to display the
16 generated hyperlink.

17 On the Seller's Link Screen depicted in FIG. 30, an Affiliate's Logo 215 is displayed.
18 The Affiliate's Logo 215 represents the logo of an affiliated eCommerce/eAuction provider.
19 When Affiliate co-branding is desired, an affiliate identifier is appended to the end of the
20 URL that refers to the Sell It application as that URL is provided in the affiliate Provider's
21 Web site. An affiliate identifier is an account number that begins with the prefix "AFF".
22 When a Seller clicks on a logo or hyperlink for the System that has an affiliate identifier, the
23 affiliate identifier is sent to the System with the hyperlink. If the System receives an affiliate
24 identifier in a hyperlink, the System accesses the System database 22 as depicted in FIG. 5,
25 retrieves the affiliate's logo and color scheme, and uses the affiliate's logo, page element
26 specifications, and color scheme to alter page elements of the System screens.

27 In one embodiment, the System generates an HTML hyperlink by executing a JAVA
28 script routine (in alternative embodiments, other scripts are used). The JAVA routine extracts
29 the Seller's package-specific information from the Create a Seller's Link HTML page (i.e.,

1 Weight, Irregular or Non-Standard Packaging, Loss Protection, Destination Zip code, Link
2 Type and Link Text) and integrates the information with a URL (Universal Resource Locator)
3 that points to the address at which a System web page exists, or a series of System web pages
4 exist, that will display shipping cost comparisons for a Buyer/Bidder. In one embodiment,
5 the URL information is hard coded in the web page. The hyperlink built by the System
6 contains data as well as an address. In an alternative embodiment, the URL is dynamically
7 generated.

8 In order to create the Link, the System places the appropriate HTML tags and text in a
9 sequence that can be rendered by a web browser. An example of a hypertext link, like the one
10 generated in FIGS. 25 and 29, that the "Create Link" application creates is depicted in FIG.
11 31. Some of the text of the Link (a hyperlink) depicted in FIG. 31 is a template. However,
12 several components are customized according to the Seller's and the specific item's
13 information. For instance, the example hyperlink depicted in FIG. 31 contains a variable data
14 item named "K" 210-1 which is set equal to the account number 210-2 ("A6V1XZ" in this
15 case) of the Seller's account 210. The example hyperlink depicted in FIG. 31 also contains a
16 variable named "W" which is set equal to the weight in pounds of the package to be shipped
17 (in this case "10") 211; a variable named "V" set equal to the declared value for loss
18 protection of the package (in this case "0") 212; and a variable named "H" which is set equal
19 to an indicator, which if set to "1", the package has irregular or non-standard packaging, if set
20 to "0" (as in this case"), the package is regular with standard packaging 213.

21 After the System generates the HTML hyperlink, the Seller can copy the HTML
22 hyperlink text 203a as depicted in FIG. 30 using generally available text editing features such
23 as click, drag and copy. The Seller then returns to the Seller's web site or to the
24 eCommerce/eAuction Provider's from which the Seller entered the System and paste the Link
25 text in the Seller's eCommerce/eAuction item description.

26 The Buyer's/Bidder's experience is described in detail below. However, for purposes
27 of describing the Seller's Link, when the Buyer/Bidder clicks on the Seller's Link in the
28 Seller's web page, the Buyer's/Bidder's Web Browser will use the URL to locate the System
29 Web page that is addressed by the Link. The System will be presented with and receive as

1 input the information in the hypertext link, including the variables and their respective
2 contents as described above 210-213 in connection with FIG. 31.

3 With the Seller's account number 210, the System accesses the System database 22 as
4 depicted in FIG. 5 and retrieves the following types of information about the Seller: 1)
5 Package origin address; 2) Carriers and services that the Seller has chosen to use; 3) Custom
6 and public carrier rates the Seller can use; 4) Additional handling charges that the Seller
7 wants to imposes; and 5) Payment methods the Seller will allow the buyer to use. This type
8 of information was collected by the System during the Seller's Registration process as was
9 described above (e.g., in connection with FIGS. 9-14, 16-25).

10 With the Seller's information as collected through the Registration process and with
11 the package specific information as provided by the hyperlink Seller's Link, the System, at
12 the address provided by the URL, is programmed to interact with the Buyer, as will be
13 described in detail below, to facilitate shipping of the package, payment information
14 collection, and depending upon the previously provided (during Seller registration)
15 instructions of the Seller, payment processing.

16 FIG. 32 depicts an alternative embodiment of a hyperlink generated by the System.
17 Instead of the hyperlink explicitly containing the Seller's account number 210 and package
18 specific information, e.g., 211-213, as depicted in FIG. 31, the hyperlink depicted in FIG. 32
19 provides a Package Identifier ("PID") 220. A PID hides Seller account information and
20 package specific information from the Buyer/Bidder by replacing the explicit embedded
21 information with a single string of facially meaningless characters. In an embodiment of the
22 System that generates a PID for each package/Seller's Link, every time a Seller creates a
23 URL with a PID, the System creates a new and unique PID. Without access to the iShip
24 database, there is no information in a PID from which to determine a Seller's information.

25 The System stores the PID 220 in a PID table in the System database 22 (such as
26 depicted in FIG. 5) and stores the Seller's account and package specific information, e.g.,
27 210-213 (such as depicted in FIG. 31) with the PID.

28 In another embodiment, the details associated with the Seller's account, such as the
29 Seller's various eCommerce and shipping preferences, are stored in detail with the PID 220.

1 Storing detailed information with a PID 220 provides for additional flexibility in that new
2 Seller information can be associated with the new PID while not influencing a previously
3 generated PID and its associated set of information.

4 FIGS. 33a and 33b represent a database schema diagram that depicts an exemplary
5 embodiment of tables in which data is stored by the System regarding a particular Seller
6 Account, and from which information is retrieved in order to begin the process of presenting
7 to the Buyer/Bidder a shipping cost multi-carrier, multi service comparison Graphic Display,
8 which itself will be discussed in more detail below.

9 As depicted in FIGS. 33a and 33b, the database schema 250 is comprised of an
10 Account User table 251, a Users table 252, an Account User Configuration table 253, a
11 Carrier Account table 254, an Account table 255, an Account and Carrier Account table 256,
12 an Address table 257, a Site Type table 258, an Account and Site Type table 259, an Account
13 and Site table 260, and a Site table 270.

14 The Account table 255 holds, among other things, information about each Seller's
15 account. In preparing the multi-carrier shipping cost comparison Graphic Display, the System
16 accesses the Account table in order to determine whether the Account number 210-2
17 contained in the hyperlink text is a valid Account number 255-1 and in an Active state 255-3.

18 The Account User table 251 is used, among other things, to associate the Seller's
19 account information with the Seller's security and address information. An address pointer
20 251-3 into the Address table 257 is used 257-1 to retrieve the Seller's origin address.

21 The Account User Configuration table 253 contains the Seller's preference settings
22 (not shown) as specified by the Seller. These include Seller's choice of carriers, services,
23 payment options, type of drop-off / pickup option, and any handling charges the Seller wishes
24 to impose on the buyer.

25 The Address table 257 holds all the addresses that are used in System applications. In
26 addition to normal mailing address information, other items stored in this database table
27 include the Seller's e-mail address and phone numbers.

28 The Carrier Account table 254 holds the carrier account information that the System
29 uses when a Seller ships a package. As well, this table 254 contains information for

1 generating each Seller's rates for each carrier.

2 The Account and Carrier Account table 256 ties the carrier accounts 254-1 from the
3 carrier Account table 254 to the Carrier Accounts 256-2 with which the Seller has specified as
4 a preferred Carrier to a particular Seller's account 256-1.

5 The Site Table 270 contains information about drop off and pickup site locations. The
6 Site Type table 258 contains information about each type of site.

7 The Account and Site table 260 relates a particular Seller Account 260-1 to a
8 particular site pointer 260-2 which in turn points to a particular site record 270-1 in the Site
9 table 270.

10 The Account and Site Type table 259 relates a particular Account 259-1 to a particular
11 site type 259-2 which in turn points to a particular site type record 258-1.

12 In one embodiment, once the Seller has decided upon the Seller's preferred options,
13 the information in the Site Type, Account and Site Type, Account and Site and Site tables
14 258-270 are stored in the Account User Configuration table 253.

15 Most eCommerce web sites and eAuction sites allow the Seller to generate a custom
16 Seller's web page for each item being sold. Typically, the Seller's web page utilizes HTML
17 for the layout, and descriptions and pictures of the item sold or auctioned. During the process
18 of establishing an eCommerce/eAuction web page, the Seller utilizes the System to register
19 for the System's shipping management services, to enter the Seller's preferences as described
20 above, and to enter parameters such as, for example, the weight and packaging, loss
21 protection and value of the package, as described above that describe the particular item the
22 Seller is selling/auctioning. The Seller then uses the Create a Seller's Link function of the
23 System to create a hyperlink. The Seller then uses customary edit controls to copy the
24 hyperlink and paste the hyperlink into the description of the item to be sold at the Seller's web
25 site. The result is an HTML hyperlink to view the shipping charges from the auction item
26 description field, an exemplary embodiment of which is depicted in FIG. 34.

27 As depicted in FIG. 34, the exemplary item bidding requirements and circumstances
28 301 are described in the Seller's auction web site page. A description of the item available
29 for bidding is provided 302. The Seller has used the System to copy the hyperlink 203a

1 created by the system into the description 302 of the item. After returning to the Seller's
2 auction web site page describing the particular item, the Seller used customary edit controls to
3 paste the hyperlink into the description 302 of the item 303. The Seller's web site page 53 is
4 depicted in FIG. 10c.

5

6 D. THE BUYER'S EXPERIENCE IN AN ECOMMERCE EMBODIMENT

7 In an eCommerce embodiment of the present invention, the Buyer/Bidder enters the
8 Seller's eCommerce/eAuction web site page, such as the one depicted in FIG. 34, and reviews
9 the Seller's description of the item to be sold/auctioned. If the Buyer/Bidder is interested in
10 the item, the Buyer/Bidder may click on the System hyperlink 303 for that Seller's item
11 shipping charges.

12 If the Buyer clicks on the System hyperlink 303, as depicted in FIG. 10c, the
13 Buyer/Bidder enters the System at the URL address supplied by the hyperlink. FIG. 35 is a
14 graphic representation of an exemplary Buyer shipping rating information collection screen
15 that the Buyer would see upon entry into the System. As depicted in FIG. 35, the System
16 displays a Buyer data collection screen 55 (in FIG. 10c) to the Buyer, instructing the Buyer to
17 enter the Buyer's zip code and other options, and to click on the Get Rates button 317 to get a
18 comparison of rates 310. The Buyer enters the deliver-to zip code 311, identifies whether the
19 delivery will be made to a business address 312 or a residence 313, and whether yes 314 or no
20 315 the Buyer wants the selected Carrier/service to guarantee a delivery time. The System
21 instructs the Buyer to click the "Back" button on the Buyer's web browser to return to the
22 Seller's item web site page 316.

23 Once the Buyer has supplied the necessary information, if the Buyer clicks the Get
24 Rates button 317, the System validates the information supplied by the Buyer and then
25 combines the information supplied by the Buyer with the information set for the Seller during
26 the Seller's registration/eCommerce registration and calculates and displays a multi-carrier,
27 multi-service rate and time shipping cost comparison Graphic Array 56 (as depicted in FIG.
28 10c).

29 An exemplary embodiment of a multi-carrier, multi-service rate and time shipping

1 cost comparison Graphic Array in an exemplary simplified Internet embodiment of the
2 invention is depicted in FIG. 36a.

3

4 a) THE GRAPHIC ARRAY DISPLAY

5 FIG. 36a depicts an exemplary Dynamically Dimensioned Multi-Carrier, Multi-
6 Service Graphic Array online display as part of an exemplary supplemental Shipper Parcel
7 Specification Input Screen. FIG. 36a depicts a Graphic Array for an exemplary simplified
8 Internet embodiment. In the embodiment of the Graphic Array depicted in FIG. 36a, the
9 particular screen is titled the Rates and Times Screen.

10 As depicted in FIG. 36a, the exemplary Graphic Array contains the following
11 information and display elements: 1) valid delivery dates 1063 (1063-1 through 1063-3)
12 across the top of the graphic display for the selected Ship Date; 2) sorted, valid delivery times
13 1064 (1064-1 through 1064-6) for all valid dates down the left side of the graphic display; and
14 3) color coded by Carrier, Carrier cell entries, e.g., 1065, for each available rate, by date and
15 time.

16 In the exemplary embodiment depicted in FIG. 36a the Graphic Array comprises an
17 array of intersecting rows and columns. Each column corresponds to a day and date of parcel
18 delivery. In FIG. 36a, the days and dates of delivery shown are "TUE 28 SEP 99" (1063-1),
19 "WED 29 SEP 99" (1063-2) and "THU 30 SEP 99" (1063-3). As depicted in FIG. 36a, space
20 for other columns (1063-4 through 1063-7) are available for display; in the case of the
21 example depicted in FIG. 36a however, no dates are displayed in those columns.

22 Each row of the Graphic Array corresponds to a time of delivery. In FIG. 36a, the
23 times of delivery are shown as "8:00 AM" (1064-1), "10:30 AM" (1064-2), "12:00 PM"
24 (1064-3), "3:00 PM" (1064-4), "4:30 PM" (1064-5), and "5:00 PM" (1064-6).

25 At the intersection of each row (1064-1 through 1064-6) and column (1063-1 through
26 1063-7) of the Graphic Array is a "cell." In FIG. 36a, cells will be referred to by the element
27 1071, and by the intersecting row (1 through 6) and column (1 through 7) the intersection of
28 which forms the space for each cell (1071-1-1, 1071-1-2, . . . 1071-6-7). Some of the cells
29 depicted in FIG. 36a are empty, e.g., 1071-5-1, 1071-6-1, 1071-6-3, 1071-6-4. Empty cells

1 represent the circumstances that none of the Carriers supported by the System (the “supported
2 Carriers”) support delivery of the Subject Parcel for the time and date for which that cell
3 represents the intersection.

4 Some cells depicted in FIG. 36a have one or more cell entries. In FIG. 36a, each cell
5 entry represents a particular Carrier. Each Carrier cell entry is color coded with a unique
6 color, the unique color corresponding to a particular Carrier as is discussed in more detail
7 below; each Carrier cell entry contains a graphic element, e.g., 1147a, and a monetary
8 amount, e.g., 1147b, which represents the price for which the corresponding Carrier would
9 deliver the subject parcel. For instance, cell 1071-1-1 contains a single Carrier cell entry
10 1148. Cell 1071-3-1 contains two Carrier cell entries 1065 and 1149.

11 A color-coding legend 1062 is displayed on the Screen to identify by a name (1140b,
12 1141b, 1142b, and 1143b) and a color-coding symbol (1140a, 1141a, 1142a, and 1143a), each
13 of the supported Carriers that provide the service according to the particular Shipper’s Parcel
14 Specifications for the particular Subject Parcel.

15 For purposes of this application, unique colors are depicted with graphic symbols. For
16 example, a right-diagonal hash mark symbol 1140a is used herein to represent the color red; a left-diagonal hash mark symbol 1141a is used herein to represent the color purple; a vertical
17 hash mark symbol 1142a is used to represent the color amber; and a horizontal hash mark
18 symbol 1143a is used to represent the color blue. The particular hash mark symbols used
19 herein and the colors mentioned herein are exemplary and are not a limitation of the
20 invention.

22 Each cell of the Graphic Array that is not empty contains one or more color-coded
23 Carrier cell entries. For example, in FIG. 36a, cell 1071-3-1 contains two Carrier cell entries,
24 1065 and 1149. Carrier cell entry 1065 is color-coded with the right-diagonal hash mark
25 symbol (representing the color red) which, according to the color-coding legend 1062,
26 corresponds 1140a with the Carrier identified as “Airborne” 1140b. Carrier cell entry 1149 is
27 color coded with the horizontal hash mark symbol (representing the color purple) which,
28 according to the color-coding legend 1062, corresponds 1143a with the Carrier identified as
29 “USPS” 1143b.

1 Each Carrier cell entry, e.g., 1065, contains a graphic element, e.g., 1065a, which
2 contains what is known as “ALT text”. As depicted in FIG. 36a, a Shipper viewing the
3 Graphic Array online can place the PC’s cursor on the graphic element, e.g., 1065a of a
4 particular Carrier cell entry, e.g., 1065, to display a pop-up screen 1069 that displays the ALT
5 text for that particular Carrier cell entry. In some embodiments, the ALT text will be
6 displayed by merely placing the cursor over the graphic element for a particular Carrier cell
7 entry and leaving the cursor in that position for a certain time interval. In alternative
8 embodiments, the Shipper must click on the graphic element for a particular Carrier cell entry
9 in order to display the ALT text. In the exemplary embodiment depicted in FIG. 36a, the
10 displayed ALT text, e.g., the text displayed in pop-up screen 1069, contains the full Carrier
11 name (in the depicted case, “Airborne Express”) and the full Carrier service name (in the
12 depicted case, “Express Overnight Service”) for the Carrier 1140b (in this case, Airborne) to
13 which that Carrier cell entry corresponds.

14 As depicted in FIG. 36a, the color for the Carrier identified as “Airborne” 1140b is
15 depicted in the color coding legend 1062 with a right-diagonal cross-hatch symbol 1140a.
16 Accordingly, each Carrier cell entry contained within the Graphic Array with the right-
17 diagonal cross-hatch symbol, e.g., 1065, corresponds to a delivery of the Subject Parcel
18 supported by the Carrier “Airborne.” Appearing in each of the color-coded Carrier cell
19 entries, e.g., 1065 is a graphic element, e.g., 1065a, and a monetary value, e.g., 1065b. The
20 monetary value, e.g., 1065b corresponds to the price that the corresponding Carrier would
21 charge to deliver the Subject Parcel according to the time 1064-3 and date 1063-1 specified
22 according to the row and column of which the intersection (which, in the case described is
23 cell 1071-3-1) contains the Carrier cell entry 1065. For example, as depicted in FIG. 36a, the
24 Carrier cell entry 1065, depicted with the right-diagonal cross-hatch symbol, contains the
25 monetary amount “\$9.00.” Accordingly, the amount \$9.00 is the price that the Carrier
26 Airborne would charge to deliver the Subject Parcel at the identified time of 12:00 p.m. 1064-
27 3 on the identified date of Tuesday, September 28, 1999 1063-1.

28 Similarly, as depicted in FIG. 36a, the color for the Carrier identified as “FedEx”
29 1141b is depicted in the color coding legend 1062 with a left-diagonal cross-hatch symbol

1 1141a. Accordingly, each Carrier cell entry contained within the Graphic Array with the left-
2 diagonal cross-hatch symbol, e.g., 1147, corresponds to a delivery of the Subject Parcel
3 supported by the Carrier “FedEx.”

4 Further, as depicted in FIG. 36a, the color for the Carrier identified as “UPS” is
5 depicted in the color coding legend 1062 with a vertical cross-hatch symbol 1142.
6 Accordingly, each Carrier cell entry contained within the Graphic Array with the vertical
7 cross-hatch symbol, e.g., 1148, corresponds to a delivery of the Subject Parcel supported by
8 the Carrier “UPS.”

9 Similarly, as depicted in FIG. 36a, the color for the Carrier identified as “USPS” is
10 depicted in the color coding legend 1062 with a horizontal cross-hatch symbol 1143.
11 Accordingly, each Carrier cell entry contained within the Graphic Array with the horizontal
12 cross-hatch symbol, e.g., 1149, corresponds to a delivery of the Subject Parcel supported by
13 the Carrier “UPS.”

14 In the embodiment of the Graphic Array depicted in FIG. 36a, the Graphic Array is
15 dynamically dimensioned. For instance, only the dates and days (1063-1 through 1063-3) for
16 which delivery that conforms to the particular Shipper’s Parcel Specifications for the
17 particular Subject Parcel are displayed across the top of the graphic. For example, for the
18 date Tuesday, September 28, 1999 (1063-1), at the time 5:00 p.m. (1064-6), no Carrier
19 supports delivery of the Subject Parcel.

20 Further, as depicted in FIG. 36a, only the times (1064-1 through 1064-6) during which
21 at least one of the Carrier/Services identified as supporting the delivery are displayed along
22 the viewer’s left side of the Dynamically Dimensioned Multi-Carrier Graphic Array online
23 display.

24 Still further, as depicted in FIG. 36a, a Carrier cell entry, e.g., 1065, is displayed for
25 each of, but only for each of, the Carriers/Services that support delivery for a particular day
26 and time in the cell of the Graphic Array that represents delivery on a particular day and at a
27 particular time. When the circumstances require, the System displays one or more Carrier
28 cell entries in a single cell. For instance, cell 1071-3-1 contains two entries, 1065 and 1149;
29 whereas cell 1071-1-1 contains only a single cell. Accordingly, as depicted in FIG. 36a, the

1 cell size expands vertically to accommodate multiple Carrier cell entries.
2 In the exemplary embodiment depicted in FIG. 36a, the color-coding legend 1062 for
3 each of the Carriers/Services represented in the Graphic Array is displayed with color-coding
4 graphic elements (1140a through 1143a) and identification labels (1140b through 1143b) for
5 each relevant Carrier/Service along the viewer's right side of the rating and timing graphic.
6 Alternatively, instead of the printed name, the logo for the particular Carrier/Service can be
7 displayed. As another alternative, the Carrier/Service logo can be displayed in color in the
8 color-coding legend 1062.

9 The particular arrangement of the color legend 1062 depicted in FIG. 36a and the
10 particular colors used in the color legend depicted therein are exemplary and are not a
11 limitation of the invention. In an alternative embodiment, instead of using color, other
12 visually distinctive methods are used to differentiate between different Carriers/Services. For
13 instance, other visually distinctive methods of Carrier/Service differentiation include but are
14 not limited to: three-dimensional texture effects, other three-dimensional effects, two-
15 dimensional markings (for instance, dots, cross-hatching, and the like), lighting effects,
16 graphic symbols (for instance, the logos of the Carriers/Services) and any combination of the
17 aforementioned features with color.

18 In the embodiment of the Graphic Array depicted in FIG. 36a, the exemplary Graphic
19 Array is depicted as horizontally wide enough to accommodate seven delivery days (1063-1
20 through 1063-7) within a particular delivery timespan. The depiction in FIG. 36a of the
21 Graphic Array as a fixed size accommodating up to seven delivery days is exemplary and is
22 not a limitation of the invention. In alternative embodiments, the Graphic Array online
23 display collapses or expands in total size to reflect the actual number of rows and columns
24 that need to be present in order to display the Carrier cell entries for the Carriers/Services that
25 support delivery of the Subject Parcel according to the Shipper's Parcel Specifications.

26 The arrangement as depicted in FIG. 36a of the parcel delivery days and dates (1063-1
27 through 1063-7) across the top and the parcel delivery times (1064-1 through 1064-6) along
28 the left side of the Graphic Array is exemplary and is not a limitation of the invention. In one
29 alternative embodiment, the parcel delivery days and dates are displayed across the bottom,

1 and the parcel delivery times are displayed on the viewer's right side, of the Graphic Array.
2 In other alternative embodiments, the parcel delivery days are arranged on one of the two
3 sides of the Graphic Array and the parcel delivery times are arranged along the top or the
4 bottom of the Graphic Array. In such an alternative embodiment, the cells of the Graphic
5 Array are expandable horizontally to accommodate the appropriate number of relevant
6 Carriers/Services.

7 As depicted in FIG. 36a, the Shipper is asked to input the Expected Ship Date 1060.
8 In the exemplary embodiment depicted, a drop down menu activation mechanism 1061
9 provides the Shipper the ability to activate a pull down menu (not shown) of seven entries
10 beginning with the current date and includes the six days immediately following the current
11 date. The format used is "M/D/YY - Day name". "Today" and "Tomorrow" are displayed
12 appropriately. The number of entries provided by the selection mechanism, the format of the
13 Expected Ship Date, and other features described herein are exemplary and are not a
14 limitation of the invention.

15 In the exemplary embodiment depicted in FIG. 36a, once the Shipper selects the
16 Expected Ship Date, the System uses the Expected Ship date and the other information
17 provided by the Shipper, as in the screens depicted in FIGS. 15 and 26 described above, to
18 access the Carrier Rules, apply the Carrier Rules, and prepare the Graphic Array containing
19 the delivery prices and delivery times for the Subject Parcel according to the Shipper's Parcel
20 Specifications. The System will then generate the signals necessary to display the Graphic
21 Array and cause the Graphic Array to be displayed on the Shipper's PC.

22 Once the Graphic Array is displayed, the Shipper can change previously input
23 information and the System will automatically regenerate the Graphic Array with the delivery
24 rates and delivery times that have been updated to reflect the new information. For instance,
25 if the Shipper selects a new shipping date, the System will regenerate the Graphic Array with
26 the appropriate new rates and times. The logic for regenerating the Graphic Array is
27 described in more detail below.

28 In the exemplary embodiment depicted in FIG. 36a, a Ship Location Type drop down
29 menu activator 1067 is located below the Graphic Array. The particular location of the Ship

1 Location Type selection mechanism as described herein is exemplary and is not a limitation
2 of the invention. The list of locations is the same as the Shipping Location Type drop down
3 menu described above in the description of FIGS. 15 and 26. If the Shipping Location class
4 is a "ship center", a "Find Location" button 1068 is displayed next to the drop down menu. In
5 order to open the Drop Off Locator in a pop-up window, the Shipper places the Shipper's PC
6 cursor on the "Find Location" button 1068 and clicking the Shipper's user input device. The
7 Origin Zip Code and Ship Location type values supplied by the Shipper are used as
8 parameters for the Drop Off Locator to locate a list possible Drop Off Location choices. The
9 Shipper can select a Drop Off Location from the Drop Off Locator menu. The system
10 dynamically responds to changes by the Shipper to Origin Zip Code and Ship Location type
11 to present choices of Drop Off Location choices.

12 Navigational buttons appear at the bottom of the Rates and Times Screen depicted in
13 FIG. 36a. Clicking the "Back" button 117 will return the Shipper to the previously displayed
14 screen, which in the embodiment depicted is the Location and Package Screen as depicted in
15 FIGS. 15 and 26. Clicking the "Next" button 102 will cause the next screen, which in the
16 embodiment depicted is the Service Option Screen (FIG. 28), to be displayed but only if the
17 Shipper has selected a particular Carrier cell entry. For example, if the Shipper click on a
18 particular Carrier cell entry such as 1065, the System will allow the Shipper to then click on
19 the "Next" button 102 and proceed to the Service Option Screen as depicted in FIG. 28.

20 If a user returns to the Rates and Times Screen (FIG. 36a) from the Service Option
21 Screen (FIG. 28), any Service Options selected by the Shipper from the Service Option
22 Screen (FIG. 28) will effect the displayed rates and will be displayed (not shown) as
23 abbreviations below the Shipping Location field 1066.

24 The System in an exemplary eCommerce embodiment such as the one described here
25 creates a multi-carrier, multi-service, shipping cost comparison Graphic Array in much the
26 same way as is disclosed above with regard to the creation of the Graphic Array in an
27 exemplary simplified Internet embodiment. The difference is that in an eCommerce
28 embodiment, instead of collecting only Shipper input, the System collects origination data

1 including origin zip code, subject parcel data, and Carrier/Service filtering data from the
2 Seller, and then completes the Parcel Specifications for the subject parcel by collecting input
3 from the Buyer, including destination zip code.

4 Using the subject parcel's Parcel Specifications, the System is programmed to access
5 databases containing information about each supported Carrier. Each supported Carrier has a
6 unique rating schedule, delivery and pickup rules and schedules, and certification
7 requirements (the "Carrier Rules"). The System is further programmed to apply each
8 supported Carrier's Rules to each Shipper's Parcel Specifications for the corresponding
9 Subject Parcel. The System calculates the Shipping Charges based on zip-to-zip pricing
10 where the Seller has provided the origin zip code and the Buyer has provided the destination
11 zip code.

12 In an eCommerce embodiment, if the Seller selected as the Seller's preference, "Item
13 cost includes shipping charges" (170, FIG. 21), then the rates displayed will be "FREE". If
14 the Seller selected as the Seller's preference, "Buyer pays actual shipping charges" (171, FIG.
15 21), then the rates displayed will be the total shipping charge as calculated according to each
16 Carrier's rules for each Service available according to the Seller's expressed preferences. If
17 the Seller selected as the Seller's preference, "Buyer pays shipping and additional charges"
18 (172, FIG. 21), then the System will calculate and display rates that are the sum of: 1) the
19 shipping rate for the applicable service according to each Carrier's rules; 2) If the Seller
20 checked "Add Percentage of Shipping Cost" (173, FIG. 21), the product of the percentage
21 entered in the Percentage of Shipping Cost field (174, FIG. 21) and the total shipping rate
22 calculated according to the Carrier's rules; 2) if the Seller checked "Add Fixed Handling
23 Charge" (175, FIG. 21), the dollar value entered in the Fixed Handling Amount field (176,
24 FIG. 21); and 4) if the Seller indicated "Add System Service Fee" (177, FIG. 21), then the
25 System Service Fee amount as indicated in the System database 22.

26 The Dynamically Dimensioned Multi-Carrier, Multi-Service Graphic Array online
27 display presents only rating and delivery timing information for the Carriers that offer
28 shipping of the particular Subject Parcel according to the particular Shipper's Parcel

1 Specifications and which conform with the Seller's Carrier/Service preferences as selected
2 according to the available options as described above regarding e.g., FIGS. 19 and 20.

3 FIG. 36f is a graphic representation of an alternative exemplary Dynamically
4 Dimensioned Multi-Carrier, Multi-Service Graphic Array online display as a Preview Rates
5 Screen (also referred to in some embodiments as a Rates and Times Screen) in an alternative
6 exemplary embodiment of the invention. The Graphic Array format of the Preview Rates
7 Screen depicted in FIG. 36f is sortable by price (i.e.,cheapest first), by delivery time (i.e.,
8 fastest is first), or preferred carrier, as governed by the enterprise and User preferences. The
9 Preview Rates Screen provides the User with the capability to optimize the Rates 5308
10 according to the Best Price 5136, or the Fastest Delivery 5135.

11 The exemplary Preview Rates Screen depicted in FIG. 36f depicts an array of dates for
12 delivery 5303-5305, multiple Carriers, e.g., 5128 (UPS), 5310 (FedEx), and 5311 (Airborne
13 Express). If the Carriers that provide Services to ship the package according to the User's
14 specifications provide such services on more days than space exists on a single screen display
15 of the Rate Grid, left and right scroll buttons (not shown) are provided.

16 The exemplary Preview Rates Screen depicted in FIG. 36f is expandable for each
17 Carrier to display multiple Services for that Carrier, e.g., 5300 for UPS. The Services for a
18 Carrier can be displayed by the User by clicking a scroll down button, e.g., 5129 for UPS.
19 Each listed Service for the Carrier identifies the time for delivery, e.g. 5306. When the
20 Preview Rates Screen is displayed, the Carrier for which the User has specified a preference
21 (if such a preference has been specified) is displayed in the expanded mode, such as is
22 depicted in FIG. 36f for UPS so that all Services supporting shipment of the subject parcel
23 according to the User's specifications are displayed 5300; Carriers for which no preference
24 has been indicated are displayed in contracted mode, such as is the case for Fed Ex 5310,
25 Airborne Express 5311 and UPS 5128.

26 In the embodiment depicted in FIG. 36f, only the Carriers and Services that support
27 shipment of the subject parcel according to the User's specifications are displayed. In one
28 embodiment of the invention, the User can limit the default display of Carrier and Service

1 comparison to certain Carriers and certain Services. In one such embodiment of the
2 invention, a Show All button (not shown) is provided. Clicking the Show All button causes
3 the System to display all Carriers, Services, and Days of Delivery that support shipment of
4 the subject parcel according to the User's specifications, even if the User has previously
5 limited the available Carriers, Services and Days of Delivery.

6 A price is displayed in an Array cell, e.g., 5307, 5302, for Carrier/Service that
7 supports delivery of the subject parcel on the specified day of delivery 5303-5305. According
8 to the User's Optimization Selection 5135-5136, an Optimizer icon 5301 is displayed in the
9 particular Graphic Array cell entry that reflects the optimal Carrier/Service.

10 As was described above, each Carrier is represented in the Graphic Array/Rate Grid
11 by a different color. In the embodiment of the Rate Grid depicted in FIG. 36f, the optimally
12 rated shipping entry for each Carrier is highlighted in the color for that Carrier; all other
13 entries for that Carrier are in grey. The presence or absence of Carriers in the Graphic Array
14 display is driven by User-specified preferences, if any, and by service choices the user has
15 made (for example, by choosing a billing option that only certain Carriers support).

16 The rates calculated and displayed in the Graphic Array are customizable. Some
17 Users may wish to see the iShip System transaction charge included in the rate quote. In one
18 embodiment of the invention, a Rating button is provided on the same screen on which the
19 Graphic Array is displayed, with which the User can toggle the rates displayed in the Graphic
20 Array back and forth between the actual shipping rates (including all discounts and fees) and
21 the rate that the Carrier charges for shipping.

22

23 b) GENERATION OF THE GRAPHIC ARRAY DISPLAY

24 To develop the rates for display in a Graphic Rates Comparison Array such as the
25 ones depicted in FIGS. 36a and 36f, the System rating component is instantiated in the server-
26 side script. The rating component's rate information method is invoked with the rate
27 parameters embedded in the URL. Based on Carriers' business rules, the rates and their
28 service option charges for all Carriers/Services are calculated from each respective Carrier's

1 zone data, service/delivery time data and rate data.

2 The System keeps the Carrier data up-to-date in the System database 22. The
3 application does not use any carriers' Application Program Interface (API) functions to get the
4 rate information. All of carrier rate data is stored in the System database 22 and all business
5 rules to calculate the rates are implemented within the System.

6 FIGS. 36b through 36e are high level data retrieval and logic flow diagrams depicting
7 the data and high level logic that the system uses to calculate a shipping rate. As depicted in
8 FIG. 36b, the following shipping information is used to calculate a shipping rate: Origin
9 postal code, Destination postal code, Weight, Packaging, Drop off / Pickup, Country code
10 3001. For each Carrier 3002, the rating component of the System uses the origin and
11 destination postal codes 3003. The rating component of the System obtains 3003 the zone id
12 from the zone table 3008 and gathers 3004 the time for deliveries for all available services
13 from the service delivery time table 3009. From the rate table 3010, the rating component
14 obtains services charges for the zone id, packaging type and weight 3005. For each service,
15 the rating component gathers all possible service options charges 3006. After gathering
16 necessary information, the rating component returns an array of rate information 3007. Each
17 element in the array represents a Carrier/Service and consists of service charge, service option
18 charges, and delivery times.

19 The System calculates the rates according to the following overview logic as depicted
20 in FIGS. 36c-36d. As depicted in FIGS. 36c through 36d, the System retrieves all rate IDs
21 (published, net, and retail) by joining the following database tables on the System's
22 AccountNo: AccountAndCarrierAcnt; CarrierAccount; RateDefinition 3020.

23 As depicted in FIGS. 36c through 36d, the System then determines the billing rules for
24 all of the Carrier/Service combinations and their service options by joining the following
25 tables on CarrierID, ServiceID, and ServiceOptionID: BillingOption;
26 BillingOptionAndService; BillingOptionAndServiceOption 3021.

27 As depicted in FIGS. 36c through 36d, for each carrier 3022, the System performs the
28 following procedures: 1) determine if the particular carrier supports the given billing option

1 based on step 2, 3026. If not, continue with the next carrier 3027; 2) Apply carrier business
2 rules, including: a) Calculate dimensional weight 3023; b) Determine billable weight 3024;
3 actual weight, dimensional weight, oversize weight or letter weight; c) Validate package
4 weight and dimensions 3025; (If the rate input violates carrier business rules 3026, continue
5 to next carrier 3027); 3) Determine the zone ID from CarrierZone table for the given
6 origin/destination postal codes 3028; 4) Determine service delivery times 3029 (including
7 Saturday/Sunday delivery times) by joining the following tables on destination postal code: a)
8 CarrierDeliveryArea; b) CarrierServiceDelTime; 5) Determine all service charges from
9 CarrierRate table by RateID, ZoneID, ServiceID and Weight 3030; 6) Determine the service
10 option charges for each Carrier/Service 3031 by joining the following tables on CarrierID and
11 ServiceID: ServiceOption; ServiceOptionAttribute ServiceAndServiceOption; and 7) Apply
12 billing options to service option charges 3032 (different service option charges could be billed
13 to different parties for various billing options).

14 As depicted in FIG. 36e, the expected delivery times for each Carrier/Service returned
15 in the rate information determine the placement of the rate grid for the particular
16 Carrier/Service cell: the delivery date determines the columns 3040 while the delivery time
17 resolves the rows 3041. In the event that multiple rate entries collide 3042, the alphabetical
18 order of the particular Carrier's name is further used to determine the Graphic Array entry
19 order within the same date and time bucket 3043. The same Carrier/Service can be placed in a
20 second time slot in the grid under Saturday or Sunday column 3045 if the Saturday or Sunday
21 delivery is applicable to the particular Carrier/Service 3044.

22 In an eCommerce embodiment of the invention, a Shipper/Seller can preview a
23 shipping rate comparison Graphic Array prior to copying the System-created Link, e.g., 203a
24 as depicted in FIG. 25, for the Seller's eCommerce site. To preview the Graphic Array
25 comparison of shipping costs, the Seller clicks on the Preview button 198, such as is depicted
26 in FIG. 25. FIGS. 37a and 37b represent a System interactivity data and logic flow diagram
27 depicting an exemplary embodiment of the Create Link and the Buyer's Preview Shipping
28 Rates functionality in an eCommerce embodiment of the present invention. FIGS. 37a and
29 37b depict the interactivity between the Seller's 8-1 and Buyer's 8-2 client computers and the

1 System's server computers 20a-21z regarding this functionality. Also depicted are the data
2 accesses to the System database 22. An arrow 230 extending from the top of the diagram and
3 pointing down towards the bottom of the figure graphically represents the passage of time.

4 As depicted in FIGS. 37a and 37b, the Seller, using the Seller's computer 8-1, clicks
5 on the Create a Seller's Link selection option 331 notifying the System servers, e.g., 21a-21z,
6 to generate a display of the Create a Seller's Link screen 332 for display on the display
7 monitor of the Seller's computer 8-1. In one embodiment, the Servers 21a-21z send 332 the
8 necessary information and instructions to build the hyperlink to the Seller's computer 8-1.
9 The Seller enters the link text and clicks the go button and the Seller's computer 8-1 creates
10 the Link 333. The Seller then copies the link, returns to the Seller's web page, and pastes the
11 link 334 in the description of the item to be sold at the eCommerce/eAuction Provider's web
12 site 345.

13 The Buyer, using the Buyer's computer 8-2, enters the Seller's web page 335 at the
14 eCommerce/eAuction Provider's web site 345. The Seller's web page at the
15 eCommerce/eAuction Provider's web site 345 displays the item description with the
16 hyperlink to the System 336 to the Buyer's computer 8-2. The Buyer clicks on the hyperlink
17 337, causing the System's servers 20a-20z to access 338 the System database 22 to retrieve
18 339 the Seller's account and eCommerce shipping preference information. The System
19 servers 21a-21z send a screen to the Buyer's computer 8-2 requesting delivery destination
20 information 340. The Buyer at the Buyer's computer 8-2 enters the delivery destination
21 information and clicks on the Get Rates button 341 which signals the System Servers 20a-21z
22 to prepare the multi-carrier, multi-service Graphic Array. The System Servers 20a-20n access
23 342 the System data base 22 and retrieve 343 the Seller's preferences and account
24 information. The System Servers 21a-21z calculate the rates and prepare the Graphic Array
25 344 for display on the display monitor of the Buyer's computer 8-2.

26 Whether or not the Buyer/Bidder (sometimes simply referred to herein as the Buyer)
27 uses the hyperlink 303 to preview the shipping charges, if the Buyer buys (or is the high
28 bidder), the Seller is provided with the Buyer's (or high bidder's) email address and name 54

1 (as depicted in FIG. 10c) either directly or by the sponsoring Provider. At that point, the
2 Seller enters the System to supply the System with Buyer information (57 and 58 as depicted
3 on FIG. 10d) so that the System can contact the Buyer for details and to facilitate the purchase
4 and shipping of the item.

5 In contrast to the collection of both Seller and Buyer information in an eCommerce
6 embodiment, the generation of the Graphic Array in the exemplary simplified Internet
7 embodiment is accomplished using input from the Shipper only. FIG. 38 is a simplified flow
8 diagram depicting an exemplary high level overview logic flow of the System and the
9 interaction with the Shipper/User such as in an exemplary simplified Internet embodiment of
10 the invention. As depicted in FIG. 38, at least one of the Servers 20a-21z are programmed to
11 provide a User Interface ("UI") that prompts each Shipper user for information about a
12 particular parcel (the "Subject Parcel") and the Shipper's shipping and delivery requirements
13 ("Shipper Parcel Specifications") 1401a-1401n. At least one of the Servers 20a-21z is
14 programmed to receive as a set of input data a particular Shipper's Shipper Parcel
15 Specifications for a particular Subject Parcel 1402. In response to each Shipper's Shipper
16 Parcel Specifications, at least one of the Servers 20a-21z accesses 1403 one or more databases
17 of information concerning, among other things, the Carrier Rules for each of the Carriers
18 supported by the System (the "Supported Carriers") 1404a through 1404n. The Carrier Rules
19 for each of the Supported Carriers are contained in one or more databases 1404a through
20 1404n.

21 As further depicted in FIG. 38, the System then applies the Carrier Rules for all
22 Supported Carriers to each particular set of Shipper Parcel Specifications 1403. From the
23 result of the application by the System of the Carrier Rules to a particular set of Shipper
24 Parcel Specifications, the System prepares a Graphic Array that displays a rating and timing
25 comparison of the delivery services by the supporting Carriers that are available to provide
26 the delivery of the Subject Parcel according to the Shipper's Parcel Specifications 1405. The
27 System then formats the Graphic Array for display on the Shipper's PC 1406, and generates
28 the signals to the Shipper's PC to display the formatted Graphic Array 1407.

1 In one embodiment of the invention, the System provides multiple modes of
2 operation, among which are the Service Comparison Mode and the Shipping Mode. The
3 Service Comparison Mode requires origin and destination zip codes but does not require full
4 address information. The purpose of the Service Comparison Mode is to provide the Shipper
5 with multi-Carrier comparisons of rates, and shipping and delivery options and requirements
6 for each of multiple Carriers. In the Shipping Mode, the Shipper must provide the full
7 address and contact information. The purpose of the Shipping Mode is to print a shipping
8 label or otherwise provide the information necessary to prepare a shipping manifest
9 document. Shipper Parcel Specifications are input in both the Service Comparison Mode and
10 the Shipping Mode.

11 FIGS. 39a through 39c are simplified flow diagrams depicting the initial Timing and
12 Rating procedure to generate a Graphic Array in an exemplary simplified Internet
13 embodiment of the invention. In the embodiment of the invention depicted in FIGS. 39a
14 through 39c, the functions of the Shipper entering shipping information 1150, displaying
15 errors to the Shipper that insufficient shipping information has been provided and prompting
16 the Shipper for additional information 1153, and displaying the Carrier/Service rate and time
17 graphic 1160, are all processed by the Web Browser at the Client. In the embodiment
18 depicted, all other functions and processes depicted in FIGS. 39a through 39c are performed
19 by one or more of the NOC Servers.

20 It should be noted that the depicted separation of functions between the Web Browser
21 at the Client on the one hand and the NOC Servers on the other hand represents an initial
22 procedure to construct the Graphic Array in response to initial Shipper input of Shipper Parcel
23 Specifications. As is explained in more detail below, after the initial construction of the
24 Graphic Array, the System can distribute certain of the functions for supplemental
25 regeneration of the Graphic Array to the Web Browser Client.

26 As depicted in FIGS. 39a through 39c, the Shipper (User) enters shipping information
27 (Shipper Parcel Specifications) 1150. The System validates the shipping information 1151.

28 In the embodiment depicted, at a minimum, the System requires Source Postal Code,

1 Destination Postal Code, Parcel Weight, Type of Shipment, and the Shipping Location in
2 order to determine a timing schedule and rates for each supported Carrier. If the Shipper has
3 not provided at least these minimum specifications, then the System displays error messages
4 153 prompting the Shipper to input further Shipper Parcel Specifications 1150.

5 Continuing with FIGS. 39a through 39c, if the Shipper has supplied the minimum
6 required specifications, then the System accesses the Shipper Database 1195 to identify any
7 user-specified Carrier designations and to determine the Carrier accounts for the appropriate
8 Shipper 1154. Using the Shipper Parcel Specifications, the System then accesses the Carrier
9 Databases (1404a through 1404n) and determines all possible Carrier/Services that support
10 shipping of the subject parcel 1155.

11 It should be noted that in some embodiments, the Shipper can restrict the identity of
12 Carriers to be used in the construction of the Graphic Array. A Shipper may choose to restrict
13 the System to certain Carriers, for instance, if the Shipper prefers to work only with certain
14 Carriers.

15 Continuing with FIGS. 39a through 39c, the System then examines each
16 Carrier/Service in the set of supporting Carrier/Services 1156. The next step 1157 is a
17 juncture for return of control from a number of points in the System logic and is performed
18 for each Carrier/Service in the set of supporting Carrier/Services.

19 If the System has examined all possible supporting Carrier/Services 1158, the System
20 assembles the Graphic Array from the delivery rate set 1159 and displays the Graphic Array
21 to the user 1160. As was previously explained, the dimensions of the Graphic Array are
22 dynamic.

23 As long as there are further Carrier/Services that remain to be examined in the set of
24 supporting Carrier Services, the System continues to perform the process described below.

25 Using the Expected Shipping Date, the System switches the Carrier/Service's shipping
26 timespan into possible delivery dates and times 1161. Next 1162, the System determines
27 whether the shipping timespan ends on a Saturday 1163. If so, the System accesses the
28 Carrier Database (1404a through 1404n) to determine whether the particular Carrier/Service

1 supports Saturday Delivery 1164. If the particular Carrier/Service does not support Saturday
2 Delivery, then the particular Carrier/Service is eliminated 1177 from the delivery rate set and
3 the System proceeds with the next Carrier/Service in the delivery rate set 1157.

4 If the particular Carrier/Service supports Saturday Delivery, the System determines
5 the appropriate Saturday delivery rate for the particular Carrier/Service 1165.

6 Continuing with FIGS. 39a through 39c, next, the System determines whether the
7 shipping timespan ends on a Sunday 1168. If the shipping timespan ends on a Sunday, the
8 System accesses the Carrier Database (1404a through 1404n) to determine whether the
9 particular Carrier/Service supports Sunday delivery 1166. If the particular Carrier/Service
10 does not support Sunday delivery, then the particular Carrier/Service is eliminated from the
11 delivery rate set 1177 and the System proceeds with the next Carrier/Service in the delivery
12 rate set 1157.

13 If the particular Carrier/Service supports Sunday Delivery, the System determines the
14 appropriate Sunday delivery rate for the particular Carrier/Service 1167.

15 The System then determines whether there is a business day delivery within the
16 shipping timespan 1169. If so, the System accesses the Carrier Database (1404a through
17 1404n) to determine whether the particular Carrier/Service supports business day delivery
18 1170. If the particular Carrier/Service does not support business day delivery, then the
19 particular Carrier/Service is eliminated from the delivery rate set 1177 and the System
20 proceeds with the next Carrier/Service in the delivery rate set 1157.

21 If the particular Carrier/Service supports business day delivery, the System determines
22 the appropriate business day delivery rate for the particular Carrier/Service 1171.

23 Continuing with FIGS. 39a through 39c, the System next determines whether the
24 Shipper has requested E-Mail delivery notification 1172. If so, the System accesses the
25 Carrier Database (1404a through 1404n) to determine whether the particular Carrier/Service
26 supports E-Mail delivery notification 1173. If the particular Carrier/Service does not support
27 E-Mail delivery notification, then the particular Carrier/Service is eliminated from the
28 delivery rate set 1177 and the System proceeds with the next Carrier/Service in the delivery

1 rate set 1157.
2 If the particular Carrier/Service supports E-Mail delivery notification, the System adds
3 the appropriate charge for the E-Mail delivery notification service to each of the particular
4 Carrier/Service's delivery rates 1174.

5 Continuing with FIGS. 39a through 39c, the System then determines whether the
6 Shipper has requested verbal delivery notification 1175. If so, the System accesses the
7 Carrier Database (1404a through 1404n) to determine whether the particular Carrier/Service
8 supports verbal delivery notification 1176. If the particular Carrier/Service does not support
9 verbal delivery notification, then the particular Carrier/Service is eliminated from the delivery
10 rate set 1177 and the System proceeds with the next Carrier/Service in the delivery rate set
11 1157.

12 If the particular Carrier/Service supports verbal delivery notification, the System adds
13 the appropriate charge for the verbal delivery notification service to each of the particular
14 Carrier/Service's delivery rates 1178.

15 Next 1179, the System determines whether the Shipper has requested that the
16 Carrier/Service guarantee delivery time 1180. If so, the System accesses the Carrier Database
17 (1404a through 1404n) to determine whether the particular Carrier/Service supports
18 guaranteed delivery times 1181. If the particular Carrier/Service does not support guaranteed
19 delivery times, then the particular Carrier/Service is eliminated from the delivery rate set
20 1177 and the System proceeds with the next Carrier/Service in the delivery rate set 1157.

21 If the particular Carrier/Service supports guaranteed delivery times, the System adds
22 the appropriate charge for the guaranteed delivery times service to each of the particular
23 Carrier/Service's delivery rates 1182.

24 Continuing with FIGS. 39a through 39c, the System then determines whether the
25 Shipper has requested a "Call for Pickup" shipping location 1184. If so, the System accesses
26 the Carrier Database (1404a through 1404n) to determine whether the particular
27 Carrier/Service supports "Call for Pickup" services 1185. If the particular Carrier/Service
28 does not support "Call for Pickup" services, then the particular Carrier/Service is eliminated

1 from the delivery rate set 1177 and the System proceeds with the next Carrier/Service in the
2 delivery rate set 1157.

3 If the particular Carrier/Service supports “Call for Pickup” services, the System adds
4 the appropriate charge for the “Call for Pickup” service to each of the particular
5 Carrier/Service’s delivery rates 1186.

6 Continuing with FIGS. 39a through 39c, the System next determines whether the
7 Shipper has requested a “Residential Delivery” 1187. If so, the System accesses the Carrier
8 Database (1404a through 1404n) to determine whether the particular Carrier/Service supports
9 “Residential Delivery” services 1188. If the particular Carrier/Service does not support
10 “Residential Delivery” services, then the particular Carrier/Service is eliminated from the
11 delivery rate set 1177 and the System proceeds with the next Carrier/Service in the delivery
12 rate set 1157.

13 If the particular Carrier/Service supports “Residential Delivery” services, the System
14 adds the appropriate charge for the “Residential Delivery” service to each of the particular
15 Carrier/Service’s delivery rates 1189.

16 The System then determines whether the Shipper has requested a “Loss Protection”
17 services 1190. If so, the System accesses the Carrier Database (1404a through 1404n) to
18 determine whether the particular Carrier/Service supports “Loss Protection” services 1191. If
19 the particular Carrier/Service does not support “Loss Protection” services, then the particular
20 Carrier/Service is eliminated from the delivery rate set 1177 and the System proceeds with the
21 next Carrier/Service in the delivery rate set 1157.

22 Continuing with FIGS. 39a through 39c, if the particular Carrier/Service supports
23 “Loss Protection” services, the System calculates the appropriate charge for the “Loss
24 Protection” service and adds the appropriate charge to each of the particular Carrier/Service’s
25 delivery rates 1193 before proceeding with the next Carrier/Service in the delivery rate set
26 1157.

27 FIG. 40 is a graphic representation depicting an exemplary embodiment of a multi-
28 carrier, multi-service shipping rates comparison Graphic Array 320 in an exemplary

1 eCommerce embodiment of the invention.

2

3 c) AUTOMATIC DYNAMIC REGENERATION OF DISPLAY

4 In the exemplary embodiments of the invention described here, the System
5 automatically and dynamically regenerates the display of the Graphic Array and certain
6 portions of other screens when the Shipper makes online changes to Shipper input. To do
7 this, the System generates executable code which it distributes with certain displayable frames
8 to the Web Browser Client. This distribution of code for purposes of regenerating the Graphic
9 Array differs from the initial generation of the Graphic Array as was described above. For
10 example, in the embodiment of the invention depicted in FIGS. 39a through 39c, in the initial
11 development of the Graphic Array, the System distributes the functions that initially generate
12 the Graphic Array as follows: the Shipper entering shipping information 1150, displaying
13 errors to the Shipper that insufficient shipping information has been provided and prompting
14 the Shipper for additional information 1153, and displaying the Graphic Array 1160, are all
15 processed by the Web Browser at the Client; all other functions and processes depicted in
16 FIGS. 39a through 39c are performed by one or more of the NOC Servers 20a-21z.

17 Distribution to the Web Browser Client by the System of executable code that
18 regenerates the Graphic Array provides the capability to dynamically reflect in the Graphic
19 Array any changes that the Shipper may enter to the various Shipper Parcel Specifications;
20 the Graphic Array immediately displays the new information without requiring the Shipper to
21 request a recalculation, such as by clicking on a “Regenerate” button or the like.

22 To facilitate regeneration of the Graphic Array, the System generates executable code
23 which it distributes with the frame, such as the frame that is displayed to the user for
24 collecting the Parcel Specifications, to the Web Browser Client. A displayable frame is a set
25 of information for display on the client display device. For example, in FIG. 36a, in one
26 embodiment of the invention, a first frame of the screen depicted in FIG. 36a comprises the
27 Title “Rates & Times” 1109a, the instruction “Click on the price to select a delivery date,
28 time and carrier.” 1109b, the legend “Date you expect to ship your package:” 1109c, the input

1 field for the Expected Shipping Date 1060, the legend "I'll ship the package from:" 1109d
2 and the input field for the Shipping Location 1066; a second frame of the screen depicted in
3 FIG. 36a comprises the Graphic Array.

4 As the System generates the display of each frame, the System generates executable
5 code which it distributes with, e.g., the Rate & Times frame, to the Web Browser Client.
6 Thereafter, the Web Browser Client uses the executable code to automatically regenerate the
7 display of the Graphic Array each time the Shipper makes changes to the Shipper Parcel
8 Specifications. In one embodiment of the dynamic regeneration aspect of the invention, the
9 executable code distributed to the Web Browser Client uses JavaScript.

10 In some cases, the executable code sent to the Web Browser Client provides the
11 information and the capability to regenerate the Graphic Array without any further
12 communication with the Server. In other cases, the Web Client Browser must return control to
13 the Server so that the Server can access data maintained by or accessible by the Server; the
14 Server then regenerates the Graphic Array or otherwise provides the Web Browser Client
15 with the information necessary to regenerate the Graphic Array.

16 In an exemplary embodiment of the automatic dynamic regeneration aspect of the
17 invention, the executable code distributed to the Web Browser Client contains the logic to
18 apply Carrier Rules to Shipper Parcel Specification changes. For instance, Shipper changes to
19 the Service Options screen as depicted in FIG. 28 would be automatically processed by the
20 Web Client Browser and the Web Client Browser would regenerate the Single Day Rate
21 Graphic Array depicted therein to reflect the Shipper changes. In one such automatic
22 dynamic regeneration embodiment, only those functions that do not require further access to
23 the relevant Carrier's database are distributed to the Web Browser Client.

24 It should be noted that, according to the automatic dynamic regeneration aspect of the
25 invention, if after the Shipper views the Graphic Array the Shipper enters changes to any of
26 the factors with which the System calculates the rates and develops the Graphic Array, the
27 System uses a similar logic flow to regenerate the Graphic Array as was explained above in
28 relation to FIGS. 39a through 39c.

1 The dynamic regeneration capability is used to automatically regenerate response
2 screens in many places throughout the System. For instance, as was mentioned above, as in
3 the case of FIG. 36a, if the Shipper changes Origin Zip Code and/or Ship Location Type, the
4 System will automatically regenerate a list of possible Drop Off Location choices.

5

6 d) COMPLETING PARCEL SPECIFICATIONS AND THE
7 BUYER'S INFORMATION

8 In an eCommerce embodiment of the invention, the System collects information from
9 both a Seller (the Shipper) and a Buyer (the Recipient). The Seller (Shipper) inputs
10 information about the parcel to be shipped and initial information about the Buyer. The
11 Buyer then inputs information such as shipping address and payment information. Depending
12 upon the Seller's preferences, the Buyer may also be asked to choose one of multiple carriers
13 and multiple shipping services.

14 FIG. 41 is a graphic representation of a Seller's Buyer Information Screen (57, FIG.
15 10d) in an eCommerce embodiment of the invention. The Seller enters the screen in one
16 embodiment by logging in to the System and then selecting the Sell It option 31a and by
17 selecting the Request Buyer Info submenu option 31b-3. The System provides the Seller with
18 instructions to complete the requested data 350. The Seller inputs the Buyer's Name 351, the
19 Buyer's e-mail address 352, an Order/Item number 353, a Description of the Goods to be
20 Shipped 354a (the Seller may scroll through the description using the scroll buttons 354b and
21 354c if the description exceeds the online screen window for the description text), and a
22 message to the buyer 355a (the Seller may scroll through the message using the scroll buttons
23 355b and 355c if the message exceeds the online screen window for the message text).

24 Buyer information and package/item information is mapped by the System into the
25 appropriate shipping data fields (i.e., Buyer name is mapped to Recipient Company/ name;
26 Buyer e-mail is mapped to Recipient e-mail, item/order number is mapped to reference
27 number, etc.).

28 Clicking on the Next button 102 will cause the System to display the Next screen,

1 which in this case is the package specific information screen (58, FIG. 10d) as depicted in
2 FIG. 42.

3 FIG. 42 is a graphic representation of an exemplary embodiment of a Subject Parcel
4 data screen. The Seller inputs the weight by clicking on the weight pull down menu button
5 358-2 and selecting a weight 358-1 from the list. The Seller selects Loss Protection, the
6 default being Basic Coverage 360, or Declared Value 361. If the Seller selects Declared
7 Value 361, the Seller must enter a value 362 greater than \$0.00 and less than or equal to
8 \$50,000.00. The Seller also enters the Item Cost to be displayed to the Buyer 364 and
9 indicates whether or not the System should show the Buyer the total of the Item Cost and
10 Shipping Charges 363. Once the Seller has entered the information, if the Seller clicks on the
11 Send button 365, the System validates the information input and prepares an e-mail to the
12 Buyer (59, FIG. 10d).

13 At this point, the System generates a System package tracking number. A System
14 tracking number is a unique number generated internally by the System to identify a
15 particular package shipped using the System. One embodiment of the way in which the
16 System generates a System package tracking number is disclosed below in the Tracking
17 section of the disclosure of the present invention.

18 FIG. 43 is a graphic representation of an exemplary embodiment of a System-prepared
19 e-mail to the Buyer. The System builds the e-mail to contain the identification of the System
20 as the sender 370, the e-mail of the Buyer 352 as supplied by the Seller, a Subject
21 identification containing the item number 353 as supplied by the Seller, the Buyer name 351
22 as supplied by the Seller, the Seller name 375 as retrieved from the Seller's account
23 information retrieved after the Seller logged into the System before entering Request Buyer
24 Info 31b-3 (e.g., as depicted in FIG. 24), a Reference number as provided by the Seller 353,
25 instructions to the Buyer 371 to click on the embedded hyperlink 372, and some further
26 instructions to the Buyer 374. The System builds the hyperlink 372 according to a preset
27 URL location 372-1 as provided from the System database 22, and specifying the System
28 package tracking number 372-3 as the value for a variable named "T=" 372-2.

1 If the Buyer's e-mail program is integrated with the Buyer's web browser, then the
2 Buyer can click on the hyperlink/URL 372 contained in the e-mail. Otherwise, the Buyer
3 must copy the hyperlink/URL 372 into the Address/Location field of the web browser. When
4 the Buyer clicks on the hyperlink/URL 372, the System displays the first screen (60, FIG.
5 10d) in the Buyer Response process.

6 FIG. 44 is a graphic representation of an exemplary embodiment of the Buyer
7 Response Introduction screen. The System provides the Buyer with instructions 380. The
8 System instructs the Buyer 382 to indicate 383 the Buyer's choice not to supply the requested
9 shipping information and an explanation as to why 384-1. The Buyer can scroll through the
10 explanation using the up and down scroll keys 384-2 and 384-3 if the text of the description
11 exceeds the online screen window for the text. The Buyer sends the refusal notification and
12 message by clicking the Send button 385. Otherwise, if the Buyer wishes to proceed, the
13 Buyer clicks the Next button 381 which will cause the System to display a Buyer Shipping
14 Information Collection screen (61, FIG. 10d).

15 FIG. 45 is a graphic representation of an exemplary embodiment of the Buyer
16 Shipping Information Collection screen. The System requests that the Buyer input the
17 Buyer's delivery address information and then click the Next button 389. The Buyer inputs
18 the delivery address information including the Company/Name 390, the Attention to name
19 391, the street address 392, the floor/room number 393, the department 394, the city 395, the
20 state 396-1 using the pull down menu button 396-2, the zip code 397, the telephone number
21 398, the fax number 399, and whether the delivery address is a business 400 or a residence
22 401. If the Buyer then clicks the Next button 102, the System validates the information
23 supplied by the Buyer and displays a screen as depicted in FIG. 46 containing a selection as to
24 whether yes 405 or no 406 the Buyer wants a guaranteed delivery time. Once the Buyer
25 selects the guarantee choice, then the Buyer clicks the Get Rates button 407 to request that the
26 System prepare and display the multi-carrier, multi-service shipping rates comparison
27 Graphic Array 320.

28 An exemplary embodiment of the Graphic Array 320 in an exemplary eCommerce

1 embodiment of the invention is depicted in FIG. 46. The Graphic Array 320 presents a multi-
2 carrier, multi service rate and time shipping cost comparison as similarly disclosed above and
3 described with respect to FIG. 36a.

4 The System creates the Graphic Array in much the same way as is disclosed above
5 with respect to FIG. 36a except that, with respect to the eCommerce embodiment, instead of
6 only Shipper input, the System collects origination data including origin zip code, subject
7 parcel data, and Carrier/Service filtering data from the Seller, and then completes the Parcel
8 Specifications for the subject parcel by collecting input from the Buyer, including destination
9 zip code.

10 Using the subject parcel's Parcel Specifications, the System 1 is programmed to
11 access databases containing information about each supported Carrier. Each supported
12 Carrier has a unique rating schedule, delivery and pickup rules and schedules, and
13 certification requirements (the "Carrier Rules"). The System 1 is further programmed to
14 apply each supported Carrier's Rules to each Shipper's Parcel Specifications for the
15 corresponding Subject Parcel. The System calculates the Shipping Charges based on zip-to-
16 zip pricing where the Seller has provided the origin zip code and the Buyer has provided the
17 destination zip code.

18 The System provides an online display of a Dynamically Dimensioned Multi-Carrier
19 Graphic Array such as is depicted in FIG. 46. If the Seller selected as the Seller's preference,
20 "Item cost includes shipping charges" (170, FIG. 21), then the rates displayed will be
21 "FREE". If the Seller selected as the Seller's preference, "Buyer pays actual shipping
22 charges" (171, FIG. 21), then the rates displayed will be the total shipping charge as
23 calculated according to each Carrier's rules for each Service available according to the
24 Seller's expressed preferences. If the Seller selected as the Seller's preference, "Buyer pays
25 shipping and additional charges" (172, FIG. 21), then the System will calculate and display
26 rates that are the sum of: 1) the shipping rate for the applicable service according to each
27 Carrier's rules; 2) If the Seller checked "Add Percentage of Shipping Cost" (173, FIG. 21),
28 the product of the percentage entered in the Percentage of Shipping Cost field (174, FIG. 21)

1 and the total shipping rate calculated according to the Carrier's rules; 2) if the Seller checked
2 "Add Fixed Handling Charge" (175, FIG. 21), the dollar value entered in the Fixed Handling
3 Amount field (176, FIG. 21); and 4) if the Seller indicated "Add System Service Fee" (177,
4 FIG. 21), then the System Service Fee amount as indicated in the System database 22.

5 The Dynamically Dimensioned Multi-Carrier, Multi-Service Graphic Array online
6 display presents only rating and delivery timing information for the Carriers that offer
7 shipping of the particular Subject Parcel according to the particular Shipper's Parcel
8 Specifications and which conform with the Seller's Carrier/Service preferences as selected
9 according to the available options as described above regarding FIGS. 19 and 20.

10 The Buyer uses a user input device such as a mouse, track ball, or the like, to pick a
11 Carrier and Service. To make the selection, the Buyer, for instance, places the cursor of the
12 Buyer's PC on the displayed Carrier cell entry (e.g., 408 as depicted in FIG. 46; e.g., 1065 as
13 depicted in FIG. 36a) in the Graphic Array and clicks the Buyer's user input device (the
14 "Selected Carrier").

15 Once the Shipper selects a particular Graphic Array Carrier cell element, (e.g., 408 as
16 depicted in FIG. 46; e.g., 1065 as depicted in FIG. 36a) the System then processes the
17 shipping transaction. In an exemplary simplified Internet embodiment of the invention, the
18 System processes the Shipper's shipping transaction using Shipper information from the
19 Shipper Database 1195 (e.g., as depicted in FIG. 39a) and information for the Selected Carrier
20 from the Carrier Database 1404a through 1404n (e.g., as depicted in FIG. 39a). In an
21 exemplary eCommerce embodiment of the invention, the System processes the shipping
22 transaction using information supplied by both the Seller/Shipper and the Buyer/Recipient
23 and information for the Selected Carrier.

24 In an eCommerce embodiment of the invention, once the Buyer selects a Carrier and
25 Service, the System prepares a Shipping Summary Screen (63, FIG. 10d) an exemplary
26 embodiment of which is depicted in FIG. 47. The System reports a summary of the Shipping
27 information including the delivery address 410, the Carrier/Service 411 and the itemized and
28 total charges for the item and shipping 412. In addition, if the Seller requested the System to

1 collect payment information, the System provides a drop down selection menu button 413-2
2 which when clicked will display a list of the methods of payment previously selected by the
3 Seller (e.g., 179a-179g, and 180, as depicted in FIG. 21). If a credit card payment method is
4 indicated, the Buyer is required to supply a credit card number 414, and the expiration date
5 month 415-1 (using a drop down menu button 415-2) and year 416-1 (using a drop down
6 menu button 416-2). The Buyer is instructed to click the Cardholder Information button 417
7 if the cardholder name and address are different than the shipping name and address 419. If
8 the Cardholder and shipping information match, the Buyer clicks the Send button 418 to send
9 the payment information to processing.

10 In an exemplary simplified Internet embodiment of the invention, the System
11 generates a Shipping Summary Screen once the Shipper has picked a particular
12 Carrier/Service entry from a Graphic Array comparison. FIG. 48 depicts an alternative
13 exemplary embodiment of a Shipping Summary Screen such as in an exemplary simplified
14 Internet embodiment of the invention. In the embodiment depicted in FIG. 48, the Shipper has
15 picked a particular Carrier/Service entry from a Graphic Array comparison (e.g., 1065 as
16 depicted in FIG. 36a). The Shipping Summary Screen depicted in FIG. 48 displays the
17 Shipper Parcel Specifications 1110 and provides a detailed list and total, of the selected
18 Carrier's charges. Clicking on the "Next" button 102 causes the display of the first of a series
19 of several screens (not shown) requesting the necessary Shipper and Recipient information.
20 Once the Shipper has input all of the necessary information, the Shipper is presented with a
21 final Summary and Payment Screen (not shown), which in addition to the fields depicted in
22 FIG. 48, further requests Payment information, such as Payment Method, Credit Card No.,
23 Expiration Date, and Credit Card Type.

24 Returning to the eCommerce embodiment depicted in FIG. 47, if the Buyer clicks the
25 Cardholder Information button 417, the System displays a Cardholder Information collection
26 screen (64, FIG. 10d), an exemplary embodiment of which is depicted in FIG. 49. The Buyer
27 is asked to supply the Cardholder name 420, Street address 421, State 422-1 (using a pull
28 down menu button 422-2), and zip code 423. The Buyer clicks the Save button 424 to save
29 the cardholder information.

1 As depicted in FIG. 10d, once the Buyer in an eCommerce embodiment has completed
2 all Buyer Response screens, the System enters the System package tracking number in the
3 System's Shipping Log for the Seller, an exemplary embodiment of which is depicted in FIG.
4 50. The System also notifies the Seller via e-mail (66, FIG. 10d) that the Buyer has
5 completed all of the necessary shipping and payment information.

6

7 E. SHIPPING THE PACKAGE

8 In an exemplary eCommerce embodiment of the invention, the System notifies the
9 Seller via e-mail (66, FIG. 10d) once the Buyer has completed all of the necessary shipping
10 and payment information. An exemplary embodiment of a Seller notification e-mail is
11 depicted in FIG. 51. In the Seller notification e-mail, the System identifies the System as the
12 sender 370, the Seller's e-mail 107 (e.g., as depicted in FIG. 12) as the recipient 375, and the
13 item number 353. The e-mail contains a message 425 and instructions 427 to log on to the
14 System to view a Shipping Log. The Shipping Log provides a platform with which the
15 Shipper/Seller controls the shipping and attendant functions for all packages shipped or to be
16 shipped by the particular Shipper/Seller.

17 The Seller can view the Shipping Log by selecting the View Shipping Log submenu
18 option 32b-2 from the Ship It menu option 32b. The Shipper/Seller can control the display
19 order of the Shipping Log by selecting from a choice of several reporting controls. The
20 Shipping Log (65, FIG. 10d) as depicted in FIG. 50 provides reporting controls such as
21 Display selection 430 (with a pull down menu button 431), time period 432 (with a pull down
22 menu button 433), and sort by 434 (with a pull down menu button 435). The Seller can click
23 on the Update View button 436 to request an up-to-date report. Each Shipping log line item
24 contains the System tracking number 438, the addressee name 437, the Carrier 440 and
25 Service 439, the Ship date 441 and delivery date 442, and control buttons that allow the Seller
26 to request details 443, instruct the system to ship the item 444, void the shipment 445, or
27 reprint a label 446.

28 FIG. 52 is a graphic representation of an exemplary embodiment of a Void Package

1 screen that the System displays if the Seller clicks on the Void button 445 on the Shipping
2 Log. The Void Package screen provides a summary report of the information about the
3 particular package 452, provides a View Details button 451 if the Seller wants additional
4 detailed information about the package, and a Void Package button 453 if the Seller finally
5 decides to void the identified package.

6 FIG. 53 is a graphic representation of an exemplary embodiment of a Reprint Label
7 screen which provides a report about the package 454, a View Details button 451, and a
8 Generate Label button 455. If the User clicks the Generate Label button 455, the System will
9 generate and print a shipping label (69, FIG. 10e) for according to the appropriate Carrier and
10 Service, as limited by the Seller and as finally selected by the Buyer.

11 As mentioned above, in some embodiments, the Shipper can use the System to locally
12 print on the Shipper's printer device a bar-coded shipping label according the Selected
13 Carrier's certification standards. In some embodiments, the bar-coded shipping label,
14 including two dimensional bar code labels, and other types of shipping labels, can be printed
15 on either a thermal label printer or on a laser printer. The Shipper specifies the type of printer
16 to the system during initial setup procedures. Thereafter, the System uses, as appropriate, the
17 thermal printer or laser printer module to prepare the label image for printing on the Shipper's
18 printer.

19 FIG. 54 depicts a flow diagram of one embodiment of the aspect of the invention that
20 provides printing of bar-coded shipping labels on printer devices which are compatible with
21 the client system on which the web browser is running, such as an HP-compatible laser
22 printer. As depicted in FIG. 54, one of the NOC Servers, for instance, the Shipping Server,
23 e.g., 21t as depicted in FIG. 7, gets the Label Size from the Carrier Label Specification 1250,
24 the Label Layout from the Carrier Label Specification 1251, Label Data from the Shipper
25 Database 1252, and the Label Quality in Dots Per Inch ("DPI") as set by the Server 1253, and
26 uses this information to Generate the Label 1254.

27 The Server then creates, and causes the display on the client browser's display device
28 of, a text string with a specified font face and in a specified font size in an HTML table data

1 cell with a specified width 1255. If the client browser is using a 096 display device DPI, the
2 display device will display said text string in the HTML table data cell in a single line. If on
3 the other hand, the client browser is using a 120 display device DPI, the display device will
4 display said text string in the HTML table data cell in two lines.

5 In creating the display of the text string, the Server also sends a message to the
6 Shipper asking the Shipper to answer the following question: do you see the text string
7 displayed on your screen as a single line or as wrapped text in multiple lines? The Server
8 receives the Shipper's response and determines from the response whether the Shipper's
9 display device has displayed the text as a single line or as wrapped text in multiple lines 1256.
10 If the text is displayed as a single line, then the client browser 1257 display device DPI is
11 120. Otherwise, the client browser 258 display device DPI is 96.

12 Next, the Server calculates the shipping label HTML image size in pixels 1259 by
13 multiplying the Carrier-specified label size from the Carrier Label Specification times the
14 client browser display device DPI as determined by the previous step.

15 Next, the System displays the generated label image in the client browser 1260 with
16 an HTML image tag and an HTML image size in pixels as calculated in the prior step.

17 The client browser calculates the size of the label to be printed in inches by dividing
18 the label HTML image size in pixels as calculated in a prior step by the client browser display
19 device DPI 1261; the client browser then prints out the label with the size calculated 1261.

20 FIG. 55 depicts a flow diagram of an exemplary embodiment of the aspect of the
21 invention that provides printing of dimensionally accurate images, such as dimensionally
22 sensitive symbologies including two-dimensional bar codes and other two-dimensional
23 machine readable symbologies. This aspect of the invention provides the printing of such
24 dimensionally accurate images on various types of printer devices including among others
25 HP-compatible laser printers. The printer devices can be configured with remote computers,
26 such as PC's, that will receive signals to print the dimensionally accurate image over a
27 communications network such as the Internet. Each PC having a client browser or executing
28 like software, and each PC being configured with a pre-established Image Resolution that

1 applies to the display device and the printer device configured with the PC.

2 As depicted in FIG. 55, a computer, such as Server 20t as depicted in FIG. 7,
3 determines the Image Size 1350, the Image Layout 1351, any relevant Image Data 1352, and
4 the Image Resolution in Dots Per Inch ("DPI") or in any other measure of Image Resolution
5 1353. The Server 20t uses this information to Generate the Image.

6 Alternatively, the Image has previously been created; the Server 20t determines from
7 the Image, the Image Size 1350, the Image Layout 1351, any relevant Image Data 1352, and
8 the Image Resolution in DPI or in any other measure of Image Resolution 1353 (collectively
9 referred to hereinafter as the "Image Characteristics").

10 The Server 20t determines the possible Image Resolution Categories and associated
11 values for client PC's 1354. Image Resolution Categories and associated values include
12 information such as the number of text strings, and the length of and characteristics (font face,
13 font size, and HTML table cell width) of each of the identified number of, text strings that
14 must be used to determine the Image Resolution of client display devices 1355-1356.

15 An HTML table cell width is fixed in that the physical width of the display of the
16 HTML table cell does not change depending upon the resolution of the client device; a text
17 string comprised of characters having a particular font and font size has a scalable width,
18 depending upon the resolution of the client device resolution. Use of an HTML table cell to
19 measure the resolution of client devices is not a limitation of the invention. In an alternative
20 embodiment, a graphic element other than an HTML table cell, having a fixed width, is used
21 to measure the resolution of client devices.

22 The possible Image Resolution Categories and values are stored in the memory of the
23 Server 20t and updated on some basis. In an alternative embodiment, the possible Image
24 Resolution Categories and values are input into the Server computer.

25 The Server 20t then analyzes the Image Characteristics, and the possible Image
26 Resolution categories and/or values 1355, and creates the appropriate number of text strings
27 and associated HTML table cells 1356. Each text string is created to have a specified font
28 face, a specified font size, and an associated HTML table cell with a specified width 1356.

1 The computer then causes the display of the text strings in the associated HTML table cells on
2 the remote client PC's display device 1358.

3 In creating the display of the text string, the Server also sends a message to the
4 recipient PC asking the user to answer the following question: is the first text string displayed
5 on your screen as a single line or as wrapped text in multiple lines? The Server 20t receives
6 the remote user's response and determines from the response whether the remote user's PC's
7 display device has displayed each of the text strings as a single line or as wrapped text in
8 multiple lines 1256. The Server 20t then sets the PC's Remote Image Resolution for printing
9 the Image 1359 according to the results of the user's PC's display of the text strings.

10 Next, the Server calculates the Remote HTML Image Size in pixels 1360 by
11 multiplying the Image Size times the PC's Remote Image Resolution as determined by the
12 previous step.

13 Next, the Server displays the generated image on the display device of the remote PC
14 1361 with an HTML image tag and the Remote HTML Image Size in pixels as calculated in
15 the prior step.

16 The client browser of the remote PC calculates the size of the Image to be printed
17 ("Remote Print Image Size") in inches by dividing the Remote HTML Image Size in pixels
18 by the Remote Image Resolution 1362; the client browser then prints out the Image with the
19 Remote Print Image Size 1362.

20 In one embodiment of the invention, instead of printing a shipping label at the
21 Shipper's printer, a Package Number 1120 is displayed online on a Package Number Screen
22 with notification that the label will be printed at a shipping location previously designated by
23 the Shipper. FIG. 56 depicts an exemplary embodiment of a Package Number Screen. The
24 Shipper can Void the Package Label at this point by clicking the Void Package button 1121.
25 The Shipper can request shipping of a new parcel by clicking the "New Package" button 1122
26 or can indicate completion of shipping instructions by clicking the "Done" button 1123.

27 FIG. 57 depicts an exemplary embodiment of a Generate Shipping Label Screen in an
28 exemplary simplified Internet embodiment of the invention. The Shipper is given instructions

1 1125 as to how to print the label. Clicking the “Generate Label” button 1124 causes the bar-
2 coded label to be generated.

3 FIG. 58 depicts an exemplary embodiment of a Print Label Screen in an exemplary
4 simplified Internet embodiment of the invention. At the top of the Screen, an instruction
5 1130 is displayed to scroll to the bottom of the screen for instructions. The generated label
6 1131 is displayed in the main body of the screen. Instructions for printing the label 1132 are
7 displayed at the bottom of the screen. Clicking the “Print Label” button 1133 (visible only
8 for supported web browsers) will cause the label to be printed. Clicking the “Done” button
9 1134 will close the web browser window.

10 Returning to the exemplary eCommerce embodiment, if the Seller chooses to ship a
11 specified package, e.g., by clicking on the Ship button 444 as depicted in FIG. 50, the System
12 requests the Seller to input information to e-mail a notification to the Buyer that the package
13 is being shipped. FIG. 59 is a graphic representation of an exemplary embodiment of a Send
14 Ship Notification screen (67, as depicted in FIG. 10e). In one eCommerce embodiment, this
15 information is automatically prepared by the System and an e-mail (e.g., 70 as depicted in
16 FIG. 10e) is automatically sent to the Buyer when the Seller ships the package. In one
17 embodiment, the Seller completes the information in this screen only if the Seller ships the
18 package with a Carrier or a service that is not supported by the System.

19 In an exemplary FIG. 60 depicts an exemplary E-Mail Others “Messages” pop-up
20 Window in an exemplary simplified Internet embodiment which allows the Shipper to
21 identify the “To” or “cc” status of the desired notification 1101 using a drop down menu
22 activator 1102 and which allows the user to enter each e-mail recipient’s Name 1103 and E-
23 Mail Address 1104. FIG. 60 depicts two Recipients 1107 and 1108; the screen is exemplary
24 and is not a limitation of the invention.

25 Returning to the exemplary eCommerce embodiment, when the Seller chooses to ship
26 a specified package, the System prepares and displays a Ship a Package Summary report (68,
27 FIG. 10e) an exemplary embodiment of which is depicted in FIG. 61.

28 If the Seller/Shipper ships packages using UPS, the Seller will need to run UPS End of

1 Day processing (71, FIG. 10e) at least once each day a package is shipped using UPS. FIG.
2 62 is an exemplary embodiment of the UPS End of Day screen. The System provides
3 instructions 470 and a Perform End-of-Day button 471. The System also provides Reprint
4 instructions to reprint a driver record from a previous End-of-Day process 472 and a Find
5 Driver Record button 473.

6 FIG. 63 is a graphic representation of an exemplary embodiment of a Reprint Driver
7 Record Screen that lists prior driver records 480, each record provides a Reprint button 481
8 which when clicked will reprint the driver record (72, FIG. 10e).

9 After the Seller has completed printing the label, the Seller must give the package to
10 the Carrier (73, FIG. 10e) so that it can be delivered via the Carrier (74, FIG. 10e).

11 The System provides complete tracking and reporting capabilities for packages
12 shipped through it, and for packages for which a Carrier tracking number is known as
13 described below and as disclosed in U.S. Provisional Patent Application Serial No.
14 60/170,186 previously attorney docket number 36618/DBP/I249 now attorney docket number
15 36620/DBP/I249, the disclosure of which has previously been incorporated for all purposes
16 herein by reference.

17 FIGS. 64a-1, 64a-2, 64b-1 and 64b-2 are System interactivity data and logic flow
18 diagrams depicting an exemplary eCommerce embodiment of the process by which the
19 System completes the information necessary to ship a package. References in the explanation
20 and description of FIGS. 64a-1, 64a-2, 64b-1 and 64b-2 to the Buyer mean to the Buyer and
21 the Buyer's computer 8-2; references to the Seller mean to the Seller and the Seller's
22 computer 8-1; references to the System mean the System servers, 20a-20n (the database
23 servers) and 21a-21z (the other System servers); references to the System database mean to
24 the entire logical System database 22.

25 The Seller eCommerce Preference setup Processes 231 through 239 have been
26 previously described herein above. After the Seller has completed setting up eCommerce
27 preferences, and after the Seller is notified of a sale, the Seller enters the System and prepares
28 to enter Buyer information by clicking on the Buyer information submenu option 501. The

1 System then displays a Buyer Information screen 502 to the Seller. The Seller then enters
2 Buyer information and clicks the Next button 503. The System responds by displaying the
3 Item and Cost screen 504. The Seller enters the item and cost information and sends the
4 information to the System 505.

5 The System uses the information provided by the Seller to create a new package
6 record in the System database and sets the status of the package to "waiting for buyer's
7 response" 506. The System prepares and sends an e-mail to the Buyer requesting information
8 to complete the shipment and including a URL hyperlink to the System web site page that is
9 available to intake the Buyer's information, the URL containing a System package tracking
10 number for the specified package 507. The System also prepares and sends an e-mail to the
11 Seller informing the Seller that the e-mail has been sent to the Buyer 508.

12 The Buyer upon receipt of the System e-mail, uses a web browser to navigate the URL
13 in the System e-mail and enter the System 509. The System retrieves the System package
14 tracking number from the URL provided by the user's browser to access 510 and retrieve 511
15 the package information from the System database. The System provides the Buyer with an
16 introduction and instructions to complete the process 512. If the Buyer chooses to proceed,
17 the Buyer clicks the Next button 513. The System then requests Buyer shipping information
18 514. The Buyer completes the Buyer shipping information and clicks the Next button 515.
19 The System accesses 516 and retrieves 517 from the System database rating information,
20 including the Seller's preferences. The System uses the rating information and prepares and
21 displays for the Buyer a multi-carrier, multi-service shipping cost comparison Graphic Array
22 518. The Buyer selects a Carrier/Service entry from the Graphic Array to ship the package
23 519. The System verifies the information and requests payment information from the Buyer
24 in accordance with the Seller's preferences 520. The Buyer selects a payment method, enters
25 payment information and Sends the information to the System 521. The System stores all
26 Buyer information and associates that information with the package, and updates the package
27 status to "buyer has replied" 522. The System sends an e-mail to the Seller notifying the
28 Seller that the Buyer has replied 523. The System in some embodiments sends an e-mail to
29 the Buyer notifying the Buyer that the System has informed the Seller that the Buyer has

1 replied 524.

2 The Seller requests a Shipping Log of “Today’s Packages” 525. The System accesses
3 the System database 526 to retrieve 527 a Shipping Log of the Seller’s packages that need to
4 be processed. The System displays the Shipping Log to the Seller 528. The Seller locates the
5 package to which the Buyer responded and clicks the Ship button 529. The System displays
6 the Shipping screen to the Seller 530.

7 FIGS. 65a and 65b represent a database schema diagram that depicts an exemplary
8 embodiment of tables in which data is stored by the System regarding a particular package
9 and a particular Seller’s Account, and from which information is retrieved in order to
10 facilitate the shipment of a package. The database schema depicted in FIGS. 65a and 65b
11 provides an Account User table 251, a Users table 252, an Account User Configuration table
12 253, a Carrier Account table 254, an Account table 255, an Account and Carrier Account
13 table 256, an Address table 257, a Site Type table 258, an Account and Site Type table 259,
14 an Account and Site table 260, and a Site table 270, all of which were previously described
15 herein above with respect to FIGS. 33a and 33b. The database schema with respect to
16 package information further provides the Package Table 261. The Package Table 261
17 contains for each package, among other things, a Package OID (a pointer) 261-1, the actual
18 weight 261-2, length 261-3, width 261-4, height 261-5, System package tracking number 261-
19 6, site type ID 261-7, Site OID (a pointer) 261-8, Account number 261-9, User ID 261-10,
20 From contact name 261-11, From address 1 261-12, To contact name 261-13, To address 1
21 261-14, Bill contact name 261-15, and the Bill address 1 261-16.

22

23 F. TRACKING

24 The tracking features described below apply similarly to both an exemplary simplified
25 Internet embodiment and to an exemplary eCommerce embodiment of the invention.

26

27 1) USER REQUESTED TRACKING

1 In order to track a particular package using the System, a Shipper identifies a tracking
2 number for that package to the System and requests that the System report the status of the
3 package. Two types of tracking numbers are used to track packages: 1) Carrier tracking
4 numbers and 2) System tracking number.

5 Each Carrier assigns each package a tracking number that uniquely identifies each
6 package and which is used to trace packages as the package moves through the particular
7 Carrier's system to the package's destination. The Shipper or the package recipient uses the
8 tracking number for a particular package to track, locate, and verify delivery of the particular
9 package.

10 A System tracking number is a unique number generated internally by the System to
11 identify a particular package shipped using the System. The Shipper inputs the Shipper's
12 Parcel Specifications for the Subject Parcel. Using each Shipper's Parcel Specifications, the
13 System is programmed to access databases containing information about each supported
14 Carrier. Each supported Carrier has a unique rating schedule, delivery and pickup rules and
15 schedules, and certification requirements (the "Carrier Rules"). The System is further
16 programmed to apply each supported Carrier's Rules to each Shipper's Parcel Specifications
17 for the corresponding Subject Parcel. The System provides an online display of a
18 Dynamically Dimensioned Multi-Carrier, Multi-Service Graphic Array as depicted, e.g., in
19 FIGS. 36a and 46 described above.

20 The Shipper in this case uses a user input device to pick the preferred Carrier, by for
21 instance placing the cursor of the Shipper's PC on the displayed Carrier cell entry, e.g. 1065a,
22 in the Graphic Display as depicted in FIG. 36a and clicking the Shipper's user input device
23 (the "Selected Carrier").

24 As a result of the Shipper selecting a Carrier cell entry in the Graphic Display to ship a
25 package, the System assigns the package a System package tracking number and adds a
26 record containing all of the pertinent information about the package to the System database
27 22. Following are exemplary Shipping tracking numbers: MAGGY841VRY50;
28 MAGGY84B496RF; MAGGY84X0FJ45. In one embodiment, the System Tracking

1 Number is based on a Base-33 number system. The characters available are: Zero (0) through
2 nine (9) and A through Z excluding "I" (i), "L" (l), and "O" (o). Each letter represents a
3 value, as depicted in the table below:

4 A = 10 F = 15 M = 20 S = 25 X = 30

5 B = 11 G = 16 N = 21 T = 26 Y = 31

6 C = 12 H = 17 P = 22 U = 27 Z = 32

7 D = 13 J = 18 Q = 23 V = 28

8 E = 14 K = 19 R = 24 W = 29

9 Each System Tracking Number is 13 alphanumeric characters. Position 1 is the letter 'M'.
10 Positions 2 - 7 are a System Account number. Positions 8 - 12 are a five-digit ID. Position 13
11 is a Check Digit.

12 To calculate the Check Digit, the System performs the following steps: 1)
13 Consecutively multiply the numeric value of each of positions 2-7; 2) Consecutively multiply
14 the numeric value of each of positions 8 - 12; 3) Add both results; 4) Divide by 31; 5) Convert
15 the remainder value to a Base-33 number. The converted value is the Check Digit.

16 Referring to FIG. 5 once again, when a Shipper/User ships a package using the
17 System, one or more of the System's Servers, e.g., 21a-21n create a new System tracking
18 number. When a new System tracking number is created, one of the System's Database
19 Servers, e.g., 20a-20n, adds a new package record with the newly created System tracking
20 number to a Package Table 28.

21 The Package Table 28 resides in the System database 22 and contains package records
22 for System processed packages. An exemplary embodiment of the Package Table contains the
23 following information: 1) Package Tracking State ID; 2) Package Shipping State ID; 3) Actual
24 Delivery Time; 4) Delivered To information; 5) Shipping Date; 6) Carrier Tracking Number;
25 7) System Tracking Number; 8) Carrier ID; 9) Actual Package Weight; 10) Service
26 Description; and 11) Package OID. The content of these fields are described further below.

27 The Package Tracking State ID specifies the tracking state of the package. In an

1 exemplary embodiment of the invention, there are four different tracking states: 1) Null (New
2 Packages or Shipped Packages); 2) Manifested (at the end of each day, package information is
3 moved to the Package History Table for tracking purposes); 3) In Transit (The Carrier has
4 picked up packages); 4) Delivered (Packages have been delivered to the shipping destination).

5 The Package Shipping State ID specifies the shipping state of a package. In an
6 exemplary embodiment of the invention, there are two different shipping states: 1) Shipped
7 (New Packages or Shipped Packages); 2) Manifested (at the end of each day, package
8 information is moved to the Package History Table for tracking purposes).

9 The Actual Delivery Time specifies the Date/Time that the package was actually
10 delivered. The Delivered To information identifies the person or place to which the package
11 was delivered (e.g., left with receptionist, receptionist front desk, or guard). The Ship Date
12 specifies the date on which the Carrier picked up the package. The Carrier Tracking Number
13 identifies the Carrier-specific package tracking number. The System Tracking Number
14 specifies the unique Package tracking number internally generated by the System (each
15 System tracking number corresponds to exactly one Carrier-specific tracking number). The
16 Carrier ID specifies an identification code for the particular Carrier. The Actual Package
17 Weight specifies the actual weight of the package as opposed to the billed weight. The
18 Service Description describes the type of services used to ship the package e.g., Overnight, 3
19 Day Ground, Second Day Air, etc. The Package OID contains a Globally Unique Identifier
20 ("GUID") for each package.

21 When the System creates a new package record, the record remains in the Package
22 Table 28 during an initial period of time, for example, the first day during which the record is
23 created, so that the Shipper/User can modify information about the package or void the
24 package record as appropriate. In an exemplary embodiment of invention, the System
25 performs certain processing on a periodic basis, such as at the end of each business day. This
26 type of processing is referred to herein as "End Of Day" processing. In an exemplary
27 embodiment of the invention, during "End of Day" processing, the System removes all new
28 package records from the Package Table 28 and moves the records to a Package History Table

1 29 which also resides on the System Database 22. In an exemplary embodiment, Package
2 History Table 29 records contain the same data fields as described above regarding Package
3 Table 28 records.

4 FIG. 68 is a graphic representation of a Shipper online user input screen that is
5 displayed on the Shipper's display screen 10. If a Shipper/User wants to track a particular
6 package, the Shipper/User enters the tracking number that identifies the particular parcel
7 package of interest in the "Enter tracking number" field 2035. It should be understood by
8 those with ordinary skill in the art that the User may be someone other than the Shipper. For
9 instance, the User may be a Recipient who wishes to track a package being sent to the user.
10 Once the User has entered a tracking number, the User submits a request to track the
11 particular package identified by clicking on the Submit button 2036.

12 FIG. 69 is a logic flow diagram that depicts the high level logic for tracking the status
13 of a particular package. The User enters 2018a and 2018b a tracking number 19 in the
14 tracking number field 2035 (as was shown in FIG. 68). The System first validates 2050 the
15 tracking number 19. The System performs the validation process by attempting to access the
16 record on the System database 22 that is associated with the tracking number 19. To do this,
17 the System requests that a System database server, e.g., 20a (as depicted in FIG. 5) locate and
18 retrieve the package record that is associated with the tracking number 19. The System
19 database server, e.g., 20a as depicted in, e.g., FIG. 5, uses the entered tracking number 19 to
20 search the System database 22 to locate and retrieve the specified package record. In one
21 embodiment, the System database server, e.g., 20a as depicted in, e.g., FIG. 5, is programmed
22 to perform database accesses using Sequel 7.0.

23 Through the validation process, the System determines whether the tracking number
24 19 is a System tracking number or a Carrier tracking number. Below are examples of Carrier
25 tracking numbers.

26 UPS - 1z8595610344113190

27 Airborne - 3918984344

28 FedEx - 811152682326

1 USPS - ej585489546us

2 Yellow Freight - 2100003475

3 If a user enters a Carrier tracking number as the tracking number 19, then depending upon the
4 status of the package, or the number of times that the package was tracked, there may be no
5 information in the System database 22 for the Carrier tracking number. In such a case, the
6 System then uses algorithms provided by each Carrier to determine the Carrier identification.

7 If the System determines that there is information about the package on the System
8 database 22, then the System analyzes the Package Shipping State. If the Package Shipping
9 State of the retrieved record is “Manifested” or “In Transit” and the Package Tracking State is
10 not “Delivered”, then the System prepares to track the package using the appropriate Carrier
11 system. If the Package Shipping State of the retrieved record is “Delivered”, or other final
12 status, then the System reports the status of the package to the user.

13 If the tracking number 19 is a valid System tracking number, then the System extracts the
14 Carrier’s tracking number and Carrier’s ID from the package record retrieved from the System
15 database 22 before issuing a request 2054. Otherwise, if the tracking number 19 is a Carrier
16 tracking number, then the System extracts the Carrier’s ID from the package record before
17 issuing a request 2052 to the Carrier’s Internet system. The System uses the Carrier’s ID to
18 retrieve from the System database 22 the Internet URL for the Carrier’s Internet web site. The
19 URL information is configurable.

20 Returning for a moment to FIG. 5, using the Carrier’s Internet URL, the System then
21 makes an HTTP connection to the Carrier’s web server, e.g., 23-2, 24-2, 25-2, 26-2, or 27-2,
22 using the URL information for the particular Carrier’s web server. Depending upon the
23 Carrier, the System’s 1 request and report interface with the Carrier’s web server is
24 programmed in HyperText Markup Language (“HTML”) (e.g., 24-1, 25-1, 27-1), Extensible
25 Markup Language (“XML”) (e.g., 26-1), or both HTML and XML (e.g., 23-1). FIG. 66
26 depicts an exemplary XML formatted request for submitting a tracking request to a Carrier.
27 FIG. 67 depicts an exemplary successful tracking response, also in XML format, returned by
28 the Carrier.

1 Then, as depicted in FIG. 69, the System transmits the Carrier's tracking number over
2 the HTTP connection (2052 or 2054). The System instructs the Carrier's web server as to
3 what information is requested based on the connection made using the URL.

4 If the Carrier's web server successfully responds 2055 to the System's 1 tracking
5 request, the System disconnects from the Carrier's web server and parses the response data.
6 Some Carriers' response data contains unnecessary text information. The System strips out
7 all of the unnecessary text in order to parse the relevant information.

8 If the System database 22 does not have any previous record of the package, such as
9 would be the case if the package had not been shipped using the System shipping application,
10 then the System does not store any data about the package in the Package Table or the
11 Package History Table.

12 Otherwise, the System then updates the System database 22 and reports the
13 information to the Shipper/User 2056. If the package is reported as delivered, the System
14 populates the Package History Table 29 in the System database. As was previously
15 mentioned, in an exemplary embodiment, Package History Table 29 records contain the same
16 data fields as described above regarding Package Table 28 records.

17 If on the other hand, the Carrier's Internet web server returns an unsuccessful report,
18 the System reports the failure to the User. FIG. 70 is a graphic representation of an exemplary
19 unsuccessful tracking report to the User. The Tracking Failure Report Screen as depicted in
20 FIG. 70 informs the User that the System was unable to track the package 2060 and displays
21 2061 the package tracking number 19 that the User previously entered. The Tracking Failure
22 Report Screen asks the User to verify the accuracy of the tracking number and to specify a
23 Carrier by name 2062. The Tracking Failure Report Screen provides a pull down menu
24 button 2063, that when clicked, displays a list 2064 of the supported Carriers. The user enters
25 a new tracking number 19 in the tracking number field 2035 and specifies the Carrier by
26 highlighting one of the Carriers displayed in the list 2064. The user submits the request by
27 clicking on the Submit button 2036 (covered by the pull down selection list 2064 in FIG. 70).

28 If the Carrier's system successfully returns tracking information, then the System

1 displays the package's current status. As depicted in FIG. 71, if the package has a "Delivered"
2 status, the System reports the Status 2071; status as of Last Scan including date time and
3 location 2072; Delivered To location 2073; Delivery Date 2074; Delivery Time 2075;
4 Delivery Location 2076; Signed by 2077; Carrier Name 2078; Service 2079 and Tracking
5 Number 2080.

6 Status 2071 reports the Delivery Status, also referred to as the Track, or Tracking,
7 State. Last Scan 2072 reports Last scan information for the particular package. When a
8 package is moved from one location to another, the label of the package is scanned according
9 to each Carrier's processing requirements. Also, many Carriers scan package labels when
10 packages are received by the recipients. Delivered To 2073 reports the person or place to
11 which the package was delivered (e.g., left with receptionist, receptionist front desk, or
12 guard). Delivery Date 2074 reports the date on which the package was delivered. Delivery
13 Location 2076 reports, for most carriers, the city, zip code, and state information for the
14 location to which the package was delivered. However, for some carriers, such as UPS, the
15 delivery location reports where the package was dropped off (e.g., front porch, front door).
16 Signed By 2077 reports the name of the person who signed the package after receiving it.
17 Carrier 2078 reports the name of the Carrier that delivered the package. Service 2079 reports
18 the type of shipping service (i.e., Ground). Tracking Number 2080 reports the System
19 tracking number or carrier tracking number entered by the User.

20 The User is invited to enter another tracking number 19 in the tracking number field
21 2035 and click the Submit button 2036 to submit the next tracking request.

22 As depicted in FIG. 72, if the package has not yet been delivered, the System reports
23 the information available, e.g., the Status 2071, Last Scan 2072, Carrier 2078 and Tracking
24 number 2080. In such a case, the System asks the User if the User want to be notified when
25 the identified package is delivered. The System provides the User with input fields to register
26 to receive, and have sent, e-mail notification after the package is delivered. A user can enter
27 up to three names, 2091, 2093 and 2095, and up to three e-mail addresses, 2092, 2094, and
28 2096, to receive the delivery confirmation. The User submits the e-mail notification by

1 clicking on the Submit button 2036-1.

2 If the User completes the e-mail notification input fields with at least one e-mail name
3 and address, e.g., 2091 and 2092, the System creates an entry in a Track Response Table 30
4 which is a table contained in the System Database 22 as depicted in FIG. 5. The Track
5 Response Table entry contains the tracking number 19 earlier specified by the User and
6 displayed 2080 in the Tracking Report Screen depicted in FIG. 72. The System uses the
7 Track Response Table 30. The System performs Automatic Tracking for all of the package
8 tracking numbers contained in the Track Response Table 30 at the time that the Automatic
9 Tracking procedure is executed. Automatic Tracking is described in more detail below.

10 The User can then enter another tracking number 19 in the tracking number field 2035
11 and submit the new request by clicking on the Submit button 2036-2. When the Carrier
12 delivers the package, the System detects the delivery through one of several ways, as will be
13 further explained below, and then sends e-mail with a link to the web page with the most up to
14 date package status.

15 In an alternative embodiment, if the tracking number 19 is a Carrier tracking number,
16 the Server will validate the Carrier tracking number is a valid tracking number. If the Carrier
17 tracking number is not a valid number, the Server will return an invalid tracking number
18 error. If the Carrier tracking number is a valid number, the Server will not attempt to match
19 the number to a manifested package; the Server will track the package using the particular
20 Carrier's Internet tracking routine; and will return the tracking response to the Web Client of
21 the requesting Shipper/User.

22 In an alternative embodiment, if the tracking number 19 is a System tracking number,
23 then the System validates the System tracking number to ensure that it is a valid System
24 tracking number. If the System tracking number is not a valid tracking number, the Server
25 will return an invalid tracking number error. If the System tracking number is a valid tracking
26 number the Server queries the System database 22 to find the Carrier tracking number which
27 corresponds to the System tracking number. If no package record is found for the System
28 tracking number, then the Server will return an error to the Web Client of the requesting

1 Shipper. The error message will indicate that no package record was found; it will request the
2 user to verify that the tracking number was from a package which had been dropped off notify
3 the user that a package be tracked on the same day it shipped. If the package record is found
4 and the actual ship date is the same as the current date, the Server will return an error to the
5 Web Client of the requesting Shipper indicating that the user/Shipper cannot track the package
6 on the same day it is shipped.

7 In this alternative embodiment, once the Server has identified the Carrier tracking
8 number, the Server will track the package using the Carrier's Internet tracking routine. If the
9 tracking response from the Carrier's Internet tracking routing indicates an error, the Server
10 will make another attempt to track the package through the Carrier's Internet tracking routine.
11 If the second tracking request results in an error, the Server will notify the Web Client of the
12 requesting Shipper that the Carrier is unable to track the package, and will log a tracking
13 request error containing the Error Log number, the System tracking number, the Carrier
14 tracking number, the time and date the tracking request occurred, the error response reported
15 by the Carrier, and the Account Name of the user/Shipper making the tracking request, if that
16 information is available.

17 If, on the other hand, the Carrier returns a valid tracking response, the Server will
18 update the package status in the Server Database with the tracking response and will return the
19 detailed package information to the Web Client of the requesting user/Shipper from the
20 System Database as described below.

21 If the user supplied a Carrier tracking number, the Web Client will display the basic
22 tracking information provided by the particular Carrier's Internet tracking function. In one
23 embodiment of the invention, when the user provides a Carrier tracking number to track a
24 package, the user/Shipper's Web Client requires the user/Shipper to identify the Carrier.

25 If the user/Shipper provides a System tracking number, then if the user/Shipper is
26 logged on to the account, or otherwise enters valid logon information, that information must
27 correspond to the Account which shipped the package. In that case, the user/Shipper's Web
28 Client will display the following information: System tracking number; recipient address;

1 drop off location; Carrier and service; Carrier tracking number if available; actual ship date if
2 available; delivery address if available; delivery location if available; delivery date if
3 available; delivery time if available; signed for by information if available; package rate;
4 package weight; package dimensions; packaging; customer reference information; all scan
5 activity.

6 If on the other hand, the user/Shipper is not logged on to the account, fails to enter
7 valid logon information, or is logged on to an Account which does not correspond to the
8 Account which shipped the package, the user/Shipper's Web Client will display the following
9 information: System tracking number; recipient contact name; recipient company name;
10 Carrier and service; Carrier tracking number if available; actual ship date if available; delivery
11 address if available; delivery location if available; delivery date if available; delivery time if
12 available; signed for by information if available; package weight; customer reference
13 information; all scan activity.

14

15 **2) AUTOMATIC TRACKING**

16 Automatic Tracking of packages with Priority Delivery Notification is performed
17 when the package meets the following criteria: the package is a manifested package; the
18 package was shipped using Priority Delivery Notification; The actual ship date of the
19 package is the earlier than the current date; the package does not have the status of Delivered
20 or Lost.

21 Automatic Tracking of a particular package can be requested by the User, as depicted
22 in FIG. 72 and as was described above

23 If the package fulfills all of the above-described automatic tracking criteria, the
24 System places a record in the Track Response Table 30 and thereafter tracks the package on
25 some regular periodic time interval, for example, every four hours beginning at a staggered
26 start time. The start time is determined randomly and is staggered to occur at regular intervals
27 every four hours.

28 The System tracks the package using the specified Carrier's Internet tracking routine

1 as was previously described above. If the Carrier's Internet tracking routine returns a tracking
2 response that the tracking request is an error, the Server will track the package at the next
3 staggered tracking time. If the second tracking request response is also an error, the Server
4 will track the package at the next scheduled four hour interval. If the third tracking request
5 fails, the Server will log a tracking request error containing the following information: error
6 log number; System tracking number; Carrier tracking number; time and date the tracking
7 request occurred; and the error response from the Carrier. In the event that the third tracking
8 request fails, the Server will issue an Automatic Tracking Alert, for instance, to System
9 Support, containing the error log number.

10 If the tracking request results in a successful tracking response, the Server will update
11 the package status in the Package History Table 29 in the System Database 22 with the
12 tracking response information. If the package status returned is Delivered, the Server will
13 send delivery notification via e-mail to the notification address(e), e.g., 2091 - 2096 as
14 depicted in FIG. 72, as previously supplied by the Shipper/User. For a Delivered package, the
15 Server will update the Package History Table 29 in the System Database 22 to indicate that
16 the package has been delivered, that a delivery notification e-mail has been sent, and the date
17 and time that the e-mail was sent.

18 If the manifest package was shipped without Priority Delivery Notification, then on
19 any day after the actual ship date, as long as the status of the package is not Delivered or Lost,
20 the System will track the package every day at a non-peak period. If the tracking response is
21 an error, the Server will not attempt a second tracking request. If the tracking response is
22 successful, the System will update the package status in the System Database 22 with the
23 tracking response information.

24 The System will verify that all packages with a status of Delivered were delivered
25 within the guaranteed delivery time. For each Delivered package for which delivery was not
26 made with the guaranteed delivered time, the Server will generate a Delivery Exception
27 containing the following information: Carrier account number for the Drop Off Location;
28 Carrier tracking number; date of shipment; complete destination address information; delivery

1 exception ID number.

2 In one embodiment of the invention, there are four types of scripts, or procedures, that
3 run regularly to update the Package History Table 29 and the Track Response Table 30 in the
4 System database 22: 1) Track All Scripts, 2) Track Inbound Script, 3) Inbound Confirmation
5 Mail Script and 4) Delivery Confirmation Script. Each is described further below.

6 Track All Scripts are run on a regular basis. There is a Track All script for each
7 Carrier (e.g., FedEx, UPS, Airborne, and Yellow Freight). Each Track All script executes a
8 set of instructions that enumerate the package records in the Package History Table 29 to get
9 updated information from a specific Carrier's database. If a System tracking number has a
10 delivered tracking state, then the next time a user tries to get tracking information for this
11 particular tracking number, the System will not need to connect to the Carrier's web server to
12 get the package status information.

13 Track Inbound Script is run on a regular basis. Track Inbound Script searches the
14 Track Response Table 30 and enumerates all entries in the table to get updated information
15 from multiple Carriers' databases. If a tracking number has a delivered tracking state, then
16 Users are notified via e-mail that their packages have been delivered. Also, if the tracking
17 number is a System tracking number then the Package History Table 29 gets updated with this
18 delivered tracking state information for optimization purposes. By updating the Package
19 History Table 29, the System does not need to re-connect to carriers' web servers to get
20 information about a package that has been already delivered.

21 Inbound Confirmation Mail Script is run on a regular basis. It searches the Track
22 Response Table 30 for packages that have a delivered track state. When the script finds
23 delivered packages for Users who requested to receive e-mail notifications, it sends e-mail
24 notifications to them with delivery information.

25 Delivery Confirmation Script is run on a regular basis. It searches the Package History
26 Table 29 and enumerates all entries in the table for which the User has requested delivery
27 notification when the subject package has been delivered to destination. When the script finds
28 delivered packages in the Package History Table 29 for Users who requested to receive e-mail

1 notifications, it sends e-mail notifications to them with delivery information.

2

3 3.) COUNTER MANIFEST SYSTEM (CMS) TRACKING

4 As an alternative to using an Internet embodiment of the invention, a user can track
5 packages by using the counter Manifest System CMS feature of the invention. In such an
6 embodiment, CMS is a standalone-dedicated system that uses a connection to one of the
7 System's servers (the "CMS Server") to track packages. CMS can be connected to one of the
8 System servers in many different ways, including among others, DSL dial-up, ISDN dial-up,
9 Modems, T1 line, Hughes VSAT link or other communications systems.

10 In the CMS environment, a company maintains a connection for the CMS to the CMS
11 Server to track packages for customers. The CMS User tracks packages for the CMS User's
12 customers by entering a tracking number in the CMS tracking page. CMS tracking allows a
13 customer to register for a delivery confirmation to receive e-mail notifications when packages
14 are delivered. Also, customers can register using the System's Internet embodiment to receive
15 inbound delivery notifications for the packages that are shipped using the CMS.

16 FIG. 73 is a graphic representation of an exemplary CMS online user input screen.
17 The User inputs a tracking number 19 in the input tracking number field 2100 and submits a
18 request to the System to track the package associated with the input tracking number 19 by
19 clicking on the "Track" button 2102.

20 FIG. 74 is a graphic representation of an exemplary CMS display screen that reports a
21 successful tracking result 2103. After reading the tracking report, the User can request that
22 another package be tracked by clicking the "Track Another" button 2104.

23 FIG. 75 is a graphic representation of an exemplary CMS error tracking report display
24 screen. The tracking number 19 is displayed with an error message 2105. The user can
25 request that another package be tracked by clicking the "Track Another" button 2104.

26

27 4.) MANIFEST AND INBOUND TRACKING

1 A User can register with the System to establish a shipping account. Once a User has
2 established an account, the System will record in the System database 22 information for
3 every package shipped under the User's account. The information contained in the System
4 database 22 under the User's account is referred to as the User's Shipping Log.

5 The System provides the User with online capability to request information about the
6 User's Shipping Log. FIG. 76 is a graphic representation of an exemplary embodiment of a
7 "My Tracking" Screen. On the viewer's left side of the My Tracking Screen display, a "My
8 Tracking submenu 2110 is provided to allow the User to select options. By clicking on and
9 highlighting one of the My Tracking submenu 2110 options, the User can select to view the
10 User's Account's Shipping Log 2111, to View Inbound Packages 2112, to Add Inbound
11 Packages 2113, and to indicate Tracking Preferences 2114. The User can also input a tracking
12 number 19 into the Quick Track input field 2115 and request that the System track the
13 identified package by clicking the "go" button 2116.

14 FIG. 77 is a graphic representation of an exemplary embodiment of a Shipping Log
15 Screen. A logged on registered User enters this display screen by clicking on the My
16 Tracking submenu 2110 User's Account's Shipping Log option 2111. If the User is both
17 logged on and registered, then in response to the User clicking on the My Tracking submenu
18 2110, User's Account's Shipping Log option 2111, the System presents a Shipping Log
19 Screen with certain selection criteria. In the embodiment depicted in FIG. 77, the System
20 initializes selection criteria fields with certain default values. For instance, the Shipping Log
21 will search the system database 22 for the name of the individual to whom the particular
22 account belongs and displays the name of the person 2109. Further, the Shipping Log
23 application will search the System database 22 for all packages shipped under the User's
24 account that conform to the criteria specified in the input fields of the FIG. 77 screen.

25 The Shipping Log Screen provides for User selection of the Type of package, e.g.,
26 "All Packages" from the Display option 2118 and Display option pull-down menu button
27 2117; "For the Past" time period 2119, e.g., for the past "Month" during which packages were
28 shipped; and "Sort By" 2121-2122 which allows the User to select the order of the Shipping

1 Log report entries.

2 In response to the Shipping Log request, the System creates a list and displays an
3 online Shipping Log record for the packages shipped under the User's account and which fit
4 the selection criteria. For each such package, the System displays: the Status of the package
5 2125 and the tracking number 2080, the name of the shipper 2126, the Carrier Service 2127,
6 the name of the Carrier 2128, the Ship Date 2129, and the Delivery Date and time 2129-2130.
7 If the User wants more information for a particular package in the Shipping Log, the User
8 highlights the appropriate record in the list and clicks the "Details" button 2124.

9 FIG. 78 is a graphic representation of an exemplary embodiment of a Detailed
10 Shipping Log Entry Screen which is displayed if the User highlights the appropriate record in
11 the Shipping Log list and clicks the "Details" button 2124. The System displays the Shipping
12 Log date and time 2140, the System tracking number 2141, the estimated weight of the
13 package 2142, the billed weight of the package 2143, the Packaging type 2144, the Carrier
14 and Service 2145, a description of the goods shipped 2146, the shipping status 2071, the
15 Carrier tracking number 2080, the Shipped Date 2147, the Expected data of arrival 2148, the
16 Last Scan information 2072, the Recipient's name and address 2149, the Return name and
17 address 2150, the Ship from location 2153, the base shipping service charge 2151, and the
18 total shipping charge 2152.

19 FIG. 79 is a graphic representation of an exemplary embodiment of a detailed "Quick
20 Track" result screen which displays the same type of information described above for FIG. 78.
21 The way that a User obtains this display is to enter a tracking number 19 into the Quick Track
22 input field 2115, and by then clicking on the "go" button 2116.

23 A registered logged on User can view inbound packages if the User first identifies to
24 the System package tracking numbers for each of the packages the status of which the User is
25 interested in monitoring. FIG. 80 is a graphic display of an exemplary embodiment of an
26 "Add Inbound Packages" Screen. The User requests this screen by clicking on the "Add
27 Inbound Package" option 2113 of the "My Tracking" submenu 2110. The User inputs
28 identification information, such as the tracking number 19 in the input tracking number field

1 2035, the Carrier 2128, and the Order/Item 2161. The User can also specify that the System is
2 to provide e-mail notification 2162 with an e-mail message 2163. By clicking on the “E-mail
3 Others” button, the User can request an “E-mail Others” screen providing input similar to that,
4 items 2091-2097, and 2036-1, described above for the tracking screen depicted in FIG. 72.
5 By clicking on the “Add” button 2165, the User requests that the record identified in the
6 User’s input be added to a list for that User of Inbound Packages to be monitored.

7 Once the User has input the identification information for the packages the status of
8 which the User wants to monitor, and added all such records to the User’s Inbound Tracking
9 List, the User can then view the status of those identified Inbound packages. To do so, the
10 user clicks on the “View Inbound Packages” option 2112 of the “My Tracking” submenu
11 2110. FIG. 81 is a graphic representation of an exemplary embodiment of a “View Inbound
12 Packages” Summary Screen. Similar to the Shipping Log Screen as discussed above in
13 relation to FIG. 77, the View Inbound Packages Summary Screen displays information about
14 packages identified by the User as Inbound Packages. As depicted on FIG. 81, the User can
15 specify reporting criteria such as Display limitations 2117-2118, and sorting requests 2121-
16 2122. The User can request details about a particular package by highlighting the reporting
17 line on the screen and clicking the “Details” button 2124. The User can delete a particular
18 package from Inbound Package Tracking by highlighting the reporting line on the screen and
19 clicking the “Delete” button 2170.

20 FIG. 82 is a graphic representation of a View Inbound Packages Detail Screen. The
21 type of information displayed on this screen is similar to the type of information described
22 with respect to the Shipping Log Detail Screen as depicted in FIG. 78 and discussed above.

23

24 ILLUSTRATIVE EMBODIMENTS

25 Although this invention has been described in certain specific embodiments, many
26 additional modifications and variations would be apparent to those skilled in the art. It is,
27 therefore, to be understood that this invention may be practiced otherwise than as specifically
28 described. Thus, the embodiments of the invention described herein should be considered in

- 1 all respects as illustrative and not restrictive, the scope of the invention to be determined by
- 2 the appended claims and their equivalents rather than the foregoing description.

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

PSTM0015/MRK/STM

1

2

卷之三

1 WHAT IS CLAIMED IS:

2

3 1. A shipping management computer system, said computer system programmed
4 to:

5 display to each of a plurality of users, upon each user's request, as to each particular
6 parcel to be shipped by each user, an online interactive graphic comparison of a plurality of
7 shipping rates calculated for each of a plurality of services offered by each of a plurality of
8 carriers to ship a particular parcel, each shipping rate corresponding to a particular service
9 offered by a particular carrier for delivering the particular parcel to a particular delivery
10 destination at a particular parcel delivery time on a particular parcel delivery date, wherein
11 each user accesses the computer system over a global communications network using a client
12 computer device, and wherein each user has an individual electronic connection to the global
13 communications network.

14

15 2. The computer system of Claim 1, said computer system further programmed
16 to:

17 display said online interactive graphic comparison comprising an array of a plurality
18 of cells.

19

20 3. The computer system of Claim 2, said computer system further programmed
21 to:

22 display each of said cells at an intersection of indications of a parcel delivery date and
23 a parcel delivery time.

24

25 4. The computer system of Claim 3, said computer system further programmed
26 to:

27 display in each cell corresponding to a delivery date and a delivery time for which
28 delivery of the particular parcel is supported by at least one particular service offered by at
29 least one particular carrier each shipping rate for shipping the particular parcel calculated

1 according to a set of rules for delivery of the particular parcel by each corresponding service
2 offered by each corresponding carrier.

3

4 5. The computer system of Claim 4, said computer system further programmed
5 to:

6 subdivide each cell for which more than one carrier supports delivery of the parcel at
7 the particular delivery time on the particular delivery date corresponding to said cell into a
8 plurality of sub-cell divisions, each of said sub-cell divisions corresponding to a particular
9 service by a particular carrier that supports delivery of said parcel at the particular delivery
10 time on the particular delivery date that corresponds to the particular cell.

11

12 6. The computer system of Claim 5, said computer system further programmed
13 to:

14 colorize the display of each sub-cell division containing a display of a shipping rate
15 for shipping the particular parcel, said shipping rate corresponding to a particular service
16 offered by a particular carrier, each cell having a color that corresponds to the particular
17 carrier, each carrier having a different corresponding color.

18

19 7. The computer system of Claim 6, said computer system further programmed
20 to:

21 display each cell of the online display of said array as further containing an onscreen
22 interactive selection button.

23

24 8. The computer system of Claim 7, said computer system further programmed
25 to:

26 detect a placement by an onscreen cursor over the onscreen interactive selection
27 button of a particular cell; and

28 respond to the onscreen cursor placement by displaying an onscreen window in an
29 area in close proximity to the cell, said window containing the name of the carrier and a

1 description of the service corresponding to the cell.

2

3 9. The computer system of Claim 7, said computer system further programmed
4 to:

5 detect a clicking by an onscreen cursor over an onscreen interactive selection button
6 of a particular cell; and

7 respond to the onscreen cursor clicking the selection button by displaying an onscreen
8 display of a shipping label for shipping the parcel with the carrier and the service
9 corresponding to the particular cell.

10

11 10. The computer system of Claim 7, said computer system further programmed
12 to:

13 detect a clicking by an onscreen cursor over an onscreen interactive selection button
14 of a particular cell; and

15 respond to the onscreen cursor clicking the selection button by displaying an onscreen
16 display of a shipping document for shipping the parcel with the carrier and the service
17 corresponding to the particular cell.

18

19 11. The computer system of Claim 7, said computer system further programmed
20 to:

21 detect a placement by an onscreen cursor over an onscreen display of a particular cell;
22 and

23 respond to the onscreen cursor placement by displaying an onscreen window in an
24 area in close proximity to the cell, said window containing the name of the carrier and a
25 description of the service corresponding to the cell.

26

27 12. The computer system of Claim 7, said computer system further programmed
28 to:

29 detect a clicking by an onscreen cursor over a display of a particular cell; and

1 respond to the onscreen cursor clicking by displaying an onscreen display of a
2 shipping label for shipping the parcel with the carrier and the service corresponding to the
3 cell.

4

5 13. A computer system programmed for managing parcel shipping, said computer
6 system programmed to:

7 display to one particular user of a plurality of users a plurality of shipping rates for
8 shipping a parcel, each shipping rate corresponding to delivery of the parcel at a particular
9 delivery time on a particular delivery date by one of a plurality of services offered by one of a
10 plurality of carriers, wherein each user accesses the computer system over a global
11 communications network using a client computer device, and wherein each user has an
12 individual electronic connection to the global communications network.

13

14 14. The computer system of Claim 13, wherein each of said shipping rates
15 corresponds to a calculation according to a set of carrier rules for shipping said parcel for a
16 particular one of said services offered by a particular one of said carriers that supports
17 delivery of said parcel according to a set of user input parcel specifications and a set of user
18 input parcel specifications.

19

20 15. The computer system of Claim 14, said computer system further programmed
21 to:

22 display said plurality of shipping rates in the form of an online interactive graphic
23 array, said interactive graphic array having an first axis and a second axis.

24

25 16. The computer system of Claim 15, said computer system further programmed
26 to:

27 display along the first axis of the online interactive graphic array a plurality of
28 delivery dates that follow a current date.

29

1 17. The computer system of Claim 16, said computer system further programmed
2 to:

3 graphically dedicate to each of the plurality of displayed delivery dates a delivery
4 date-related portion of the online interactive graphic array, wherein each of said delivery
5 date-related portions is perpendicular to the first axis, and wherein each of said delivery date-
6 related portions is aligned with one of the plurality of displayed delivery dates.

7

8 18. The computer system of Claim 16, said computer system further programmed
9 to:

10 display along the second axis of the online interactive graphic array a plurality of
11 delivery times; and

12 graphically dedicate to each of the plurality of displayed delivery times a delivery
13 time-related portion of the online interactive graphic array, wherein each of said delivery
14 time-related portions is perpendicular to the second axis, and wherein each of said delivery
15 time-related portions is aligned with one of the plurality of displayed delivery times.

16

17 19. The computer system of Claim 18, said computer system further programmed
18 to:

19 display each shipping rate that corresponds to delivery of the parcel by a particular
20 carrier at a particular delivery time on a particular delivery date at an intersection of a
21 delivery date-related portion and a delivery time-related portion for which the carrier and the
22 service supports delivery of the parcel on the delivery date aligned with the intersecting
23 delivery date-related portion and at the delivery time aligned with the intersecting delivery
24 time-related portion.

25

26 20. The computer system of Claim 19, said computer system further programmed
27 to:

28 colorize each of said intersections containing a shipping rate with a color
29 corresponding to the carrier that offers the service of delivering the parcel on the delivery

- 1 date aligned with the intersecting delivery date-related portion and at the delivery time
2 aligned with the intersecting delivery time-related portion.

3

- 4 21. The computer system of Claim 19, said computer system further programmed
5 to:

6 display along the second axis of the online interactive graphic array a plurality of
7 carrier names, each carrier name corresponding to a particular carrier; and
8 graphically dedicate to each of the plurality of displayed carrier names a portion of the
9 online interactive graphic array that is perpendicular to the second axis and aligned with said
10 carrier name.

11

- 12 22. The computer system of Claim 21, said computer system further programmed
13 to:

14 detect a first clicking by an onscreen cursor over a portion of the online interactive
15 graphic array corresponding to a first particular carrier; and
16 respond to the first onscreen cursor clicking by expanding the display of the portion of
17 the online interactive graphic array corresponding to the first particular carrier to display a
18 plurality of services offered by the first particular carrier, each service offering delivery of
19 said parcel at a particular delivery time on a particular delivery date.

20

- 21 23. The computer system of Claim 22, said computer system further programmed
22 to:

23 display a shipping rate at each intersection of each particular delivery date and each
24 particular service for which delivery of said parcel on the particular delivery date is supported
25 by the particular service offered by the first particular carrier.

26

- 27 24. The computer system of Claim 23, said computer system further programmed
28 to:

29 detect a second clicking by an onscreen cursor over the portion of the online

1 interactive graphic array corresponding to a second particular carrier; and
2 respond to the second onscreen cursor clicking by collapsing the display of the
3 portion of the online interactive graphic array corresponding to the first particular carrier and
4 by expanding the display of the portion of the online interactive graphic array corresponding
5 to the second particular carrier to display a plurality of services offered by the second
6 particular carrier.

7

8 25. The computer system of Claim 24, said computer system further programmed
9 to:

10 display a shipping rate at each intersection of each particular delivery date and each
11 particular service for which delivery of said parcel on the particular delivery date is supported
12 by the service offered by the second particular carrier, each service offering delivery of said
13 parcel at a particular delivery time on a particular delivery date.

14

15 26. A shipping management computer system, said computer system programmed
16 to:

17 prompt a user, in response to a user request for a shipping rate and delivery time
18 comparision, with an interactive prompt comprising a plurality of cells, wherein each of said
19 cells comprises an intersection of indications of a parcel delivery date and a parcel delivery time
20 and wherein at least one of said cells displays for user selection a calculated shipping rate
21 corresponding to a particular carrier delivering said parcel at the indicated delivery time on the
22 indicated delivery date according to a particular service offered by the particular carrier.
23

24 27. A shipping management computer system, said computer system programmed
25 to:

26 prompt one particular user of a plurality of users with a service and carrier selection user
27 prompt to select one of a plurality of services offered by one of a plurality of carriers for shipping
28 a particular parcel to be shipped by the particular user, wherein each user accesses the computer
29 system over a global communications network using a client computer device, each user client
30 computer device having an individual electronic connection to the global communications

1 network.

2

3 28. A shipping management computer system, said computer system programmed
4 to:
5 collect user input from one particular user of a plurality of users of a selection by the
6 particular user of a shipping rate, wherein said shipping rate corresponds to one of a plurality
7 of services offered by one of a plurality of carriers for shipping said parcel wherein each user
8 accesses the computer system over a global communications network using a client computer
9 device, each user client computer device having an individual electronic connection to the
10 global communications network.

11

12 29. A computer system programmed for managing parcel shipping, said computer
13 system programmed to:

14 detect a clicking by one particular user of a plurality of users of a cell of an online
15 interactive display containing a shipping rate as a selection by the particular user of a
16 particular service of a plurality of services offered by one of a plurality of carriers, wherein
17 said selected shipping rate corresponds to the particular service offered by the particular
18 carrier, wherein each user accesses the computer system over a global communications
19 network using a client computer device, and wherein each user has an individual electronic
20 connection to the global communications network.

21

22 30. A computer system programmed for managing parcel shipping, said computer
23 system programmed to:

24 detect a placement of a cursor by one particular user of a plurality of users over a cell
25 of an online interactive display containing a shipping rate as a selection by the particular user
26 of a particular service of a plurality of services offered by one of a plurality of carriers,
27 wherein said selected shipping rate corresponds to the particular service offered by the
28 particular carrier, wherein each user accesses the computer system over a global
29 communications network using a client computer device, and wherein each user has an

1 individual electronic connection to the global communications network.

2

3 31. A computer system programmed for managing parcel shipping, said computer
4 system programmed to:

5 respond to a clicking by one particular user of a plurality of users of a cell of an online
6 interactive display containing a shipping rate by displaying an onscreen display of a shipping
7 label for shipping a particular parcel with a carrier and a service, wherein said selected cell
8 contains a shipping rate that corresponds to the corresponding service and carrier, wherein
9 each user accesses the computer system over a global communications network using a client
10 computer device, and wherein each user has an individual electronic connection to the global
11 communications network.

12

13 32. A method using a computer system for managing shipping of a plurality of
14 parcels shipped by any one of a plurality of carriers, the method comprising:

15 displaying to each of a plurality of users, upon each user's request, as to each
16 particular parcel to be shipped by each user, an online interactive graphic comparison of a
17 plurality of shipping rates calculated for each of a plurality of services offered by each of a
18 plurality of carriers to ship a particular parcel, each shipping rate corresponding to a
19 particular service offered by a particular carrier for delivering the particular parcel to a
20 particular delivery destination at a particular parcel delivery time on a particular parcel
21 delivery date, wherein each user accesses the computer system over a global communications
22 network using a client computer device, and wherein each user has an individual electronic
23 connection to the global communications network.

24

25 33. The method of Claim 32, said method further comprising:

26 displaying said online interactive graphic comparison comprising an array of a
27 plurality of cells.

28

29 34. The method of Claim 33, said method further comprising:

1 displaying each of said cells at an intersection of indications of a parcel delivery date
2 and a parcel delivery time.

3

4 35. The method of Claim 34, said method further comprising:
5 displaying in each cell corresponding to a delivery date and a delivery time for which
6 delivery of the particular parcel is supported by at least one particular service offered by at
7 least one particular carrier each shipping rate for shipping the particular parcel calculated
8 according to a set of rules for delivery of the particular parcel by each corresponding service
9 offered by each corresponding carrier.

10

11 36. The method of Claim 35, said method further comprising:
12 subdividing each cell for which more than one carrier supports delivery of the parcel
13 at the particular delivery time on the particular delivery date corresponding to said cell into a
14 plurality of sub-cell divisions, each of said sub-cell divisions corresponding to a particular
15 service by a particular carrier that supports delivery of said parcel at the particular delivery
16 time on the particular delivery date that corresponds to the particular cell.

17

18 37. The method of Claim 36, said method further comprising:
19 colorizing the display of each sub-cell division containing a display of a shipping rate
20 for shipping the particular parcel, said shipping rate corresponding to a particular service
21 offered by a particular carrier, each cell having a color that corresponds to the particular
22 carrier, each carrier having a different corresponding color.

23

24 38. The method of Claim 37, said method further comprising:
25 displaying each cell of the online display of said array as further containing an
26 onscreen interactive selection button.

27

28 39. The method of Claim 38, said method further comprising:
29 detecting a placement by an onscreen cursor over the onscreen interactive selection

1 button of a particular cell; and
2 responding to the onscreen cursor placement by displaying an onscreen window in an
3 area in close proximity to the cell, said window containing the name of the carrier and a
4 description of the service corresponding to the cell.

5

6 40. The method of Claim 38, said method further comprising:
7 detecting a clicking by an onscreen cursor over an onscreen interactive selection
8 button of a particular cell; and
9 responding to the onscreen cursor clicking the selection button by displaying an
10 onscreen display of a shipping label for shipping the parcel with the carrier and the service
11 corresponding to the particular cell.

12

13 41. The method of Claim 38, said method further comprising:
14 detecting a clicking by an onscreen cursor over an onscreen interactive selection
15 button of a particular cell; and
16 responding to the onscreen cursor clicking the selection button by displaying an
17 onscreen display of a shipping document for shipping the parcel with the carrier and the
18 service corresponding to the particular cell.

19

20 42. The method of Claim 38, said method further comprising to:
21 detecting a placement by an onscreen cursor over an onscreen display of a particular
22 cell; and
23 responding to the onscreen cursor placement by displaying an onscreen window in an
24 area in close proximity to the cell, said window containing the name of the carrier and a
25 description of the service corresponding to the cell.

26

27 42. The method of Claim 38 said method further comprising:
28 detecting a clicking by an onscreen cursor over a display of a particular cell; and
29 responding to the onscreen cursor clicking by displaying an onscreen display of a

1 shipping label for shipping the parcel with the carrier and the service corresponding to the
2 cell.

3

4 43. A method using a computer system for managing shipping of a plurality of
5 parcels shipped by any one of a plurality of carriers, the method comprising:

6 displaying to one particular user of a plurality of users a plurality of shipping rates for
7 shipping a parcel, each shipping rate corresponding to delivery of the parcel at a particular
8 delivery time on a particular delivery date by one of a plurality of services offered by one of a
9 plurality of carriers, wherein each user accesses the computer system over a global
10 communications network using a client computer device, and wherein each user has an
11 individual electronic connection to the global communications network.

12

13 44. The method of Claim 43, wherein each of said shipping rates corresponds to a
14 calculation according to a set of carrier rules for shipping said parcel for a particular one of
15 said services offered by a particular one of said carriers that supports delivery of said parcel
16 according to a set of user input parcel specifications and a set of user input parcel
17 specifications.

18

19 45. The method of Claim 44, said method further comprising:

20 displaying said plurality of shipping rates in the form of an online interactive graphic
21 array, said interactive graphic array having an first axis and a second axis.

22

23 46. The method of Claim 45, said method further comprising:

24 displaying along the first axis of the online interactive graphic array a plurality of
25 delivery dates that follow a current date.

26

27 47. The method of Claim 46, said method further comprising:

28 graphically dedicating to each of the plurality of displayed delivery dates a delivery
29 date-related portion of the online interactive graphic array, wherein each of said delivery

1 date-related portions is perpendicular to the first axis, and wherein each of said delivery date-
2 related portions is aligned with one of the plurality of displayed delivery dates.

3

4 48. The method of Claim 46, said method further comprising:
5 displaying along the second axis of the online interactive graphic array a plurality of
6 delivery times; and

7 graphically dedicating to each of the plurality of displayed delivery times a delivery
8 time-related portion of the online interactive graphic array, wherein each of said delivery
9 time-related portions is perpendicular to the second axis, and wherein each of said delivery
10 time-related portions is aligned with one of the plurality of displayed delivery times.

11

12 49. The method of Claim 48, said method further comprising:
13 displaying each shipping rate that corresponds to delivery of the parcel by a particular
14 carrier at a particular delivery time on a particular delivery date at an intersection of a
15 delivery date-related portion and a delivery time-related portion for which the carrier and the
16 service supports delivery of the parcel on the delivery date aligned with the intersecting
17 delivery date-related portion and at the delivery time aligned with the intersecting delivery
18 time-related portion.

19

20 50. The method of Claim 49, said method further comprising:
21 colorizing each of said intersections containing a shipping rate with a color
22 corresponding to the carrier that offers the service of delivering the parcel on the delivery
23 date aligned with the intersecting delivery date-related portion and at the delivery time
24 aligned with the intersecting delivery time-related portion.

25

26 51. The method of Claim 49, said method further comprising:
27 displaying along the second axis of the online interactive graphic array a plurality of
28 carrier names, each carrier name corresponding to a particular carrier; and
29 graphically dedicating to each of the plurality of displayed carrier names a portion of

1 the online interactive graphic array that is perpendicular to the second axis and aligned with
2 said carrier name.

3

4 52. The method of Claim 51, said method further comprising:

5 detecting a first clicking by an onscreen cursor over a portion of the online interactive
6 graphic array corresponding to a first particular carrier; and

7 responding to the first onscreen cursor clicking by expanding the display of the
8 portion of the online interactive graphic array corresponding to the first particular carrier to
9 display a plurality of services offered by the first particular carrier, each service offering
10 delivery of said parcel at a particular delivery time on a particular delivery date.

11

12 53. The method of Claim 52, said method further comprising:

13 displaying a shipping rate at each intersection of each particular delivery date and
14 each particular service for which delivery of said parcel on the particular delivery date is
15 supported by the particular service offered by the first particular carrier.

16

17 54. The method of Claim 53, said method further comprising:

18 detecting a second clicking by an onscreen cursor over the portion of the online
19 interactive graphic array corresponding to a second particular carrier; and
20 responding to the second onscreen cursor clicking by collapsing the display of the
21 portion of the online interactive graphic array corresponding to the first particular carrier and
22 by expanding the display of the portion of the online interactive graphic array corresponding
23 to the second particular carrier to display a plurality of services offered by the second
24 particular carrier.

25

26 55. The method of Claim 54, said method further comprising:

27 displaying a shipping rate at each intersection of each particular delivery date and
28 each particular service for which delivery of said parcel on the particular delivery date is
29 supported by the service offered by the second particular carrier, each service offering

1 delivery of said parcel at a particular delivery time on a particular delivery date.

2

3 56. A method using a computer system for managing shipping of a plurality of
4 parcels shipped by any one of a plurality of carriers, the method comprising:

5 prompting a user, in response to a user request for a shipping rate and delivery time
6 comparision, with an interactive prompt comprising a plurality of cells, wherein each of said
7 cells comprises an intersection of indications of a parcel delivery date and a parcel delivery time
8 and wherein at least one of said cells displays for user selection a calculated shipping rate
9 corresponding to a particular carrier delivering said parcel at the indicated delivery time on the
10 indicated delivery date according to a particular service offered by the particular carrier.

11

12 57. A method using a computer system for managing shipping of a plurality of
13 parcels shipped by any one of a plurality of carriers, the method comprising:

14 prompting one particular user of a plurality of users with a service and carrier selection
15 user prompt to select one of a plurality of services offered by one of a plurality of carriers for
16 shipping a particular parcel to be shipped by the particular user, wherein each user accesses the
17 computer system over a global communications network using a client computer device, each
18 user client computer device having an individual electronic connection to the global
19 communications network.

20

21 58. A method using a computer system for managing shipping of a plurality of
22 parcels shipped by any one of a plurality of carriers, the method comprising:

23 collecting user input from one particular user of a plurality of users of a selection by the
24 particular user of a shipping rate, wherein said shipping rate corresponds to one of a plurality of
25 services offered by one of a plurality of carriers for shipping said parcel wherein each user
26 accesses the computer system over a global communications network using a client computer
27 device, each user client computer device having an individual electronic connection to the global
28 communications network.

29

30 59. A method using a computer system for managing shipping of a plurality of
31 parcels shipped by any one of a plurality of carriers, the method comprising:

1 detecting a clicking by one particular user of a plurality of users of a cell of an online
2 interactive display containing a shipping rate as a selection by the particular user of a
3 particular service of a plurality of services offered by one of a plurality of carriers, wherein
4 said selected shipping rate corresponds to the particular service offered by the particular
5 carrier, wherein each user accesses the computer system over a global communications
6 network using a client computer device, and wherein each user has an individual electronic
7 connection to the global communications network.

8

9 60. A method using a computer system for managing shipping of a plurality of
10 parcels shipped by any one of a plurality of carriers, the method comprising:

11 detecting a placement of a cursor by one particular user of a plurality of users over a
12 cell of an online interactive display containing a shipping rate as a selection by the particular
13 user of a particular service of a plurality of services offered by one of a plurality of carriers,
14 wherein said selected shipping rate corresponds to the particular service offered by the
15 particular carrier, wherein each user accesses the computer system over a global
16 communications network using a client computer device, and wherein each user has an
17 individual electronic connection to the global communications network.

18

19 61. A method using a computer system for managing shipping of a plurality of
20 parcels shipped by any one of a plurality of carriers, the method comprising:

21 responding to a clicking by one particular user of a plurality of users of a cell of an
22 online interactive display containing a shipping rate by displaying an onscreen display of a
23 shipping label for shipping a particular parcel with a carrier and a service, wherein said
24 selected cell contains a shipping rate that corresponds to the corresponding service and
25 carrier, wherein each user accesses the computer system over a global communications
26 network using a client computer device, and wherein each user has an individual electronic
27 connection to the global communications network.

28

29 62. A computer program product embodying computer program instructions for

1 execution by a computer system for managing shipping of a plurality of parcels shipped by
2 any one of a plurality of carriers, the computer program product comprising:
3 a set of program instructions for displaying to each of a plurality of users, upon each
4 user's request, as to each particular parcel to be shipped by each user, an online interactive
5 graphic comparison of a plurality of shipping rates calculated for each of a plurality of
6 services offered by each of a plurality of carriers to ship a particular parcel, each shipping rate
7 corresponding to a particular service offered by a particular carrier for delivering the
8 particular parcel to a particular delivery destination at a particular parcel delivery time on a
9 particular parcel delivery date, wherein each user accesses the computer system over a global
10 communications network using a client computer device, and wherein each user has an
11 individual electronic connection to the global communications network.

12

13 63. A computer program product embodying computer program instructions for
14 execution by a computer system for managing shipping of a plurality of parcels shipped by
15 any one of a plurality of carriers, the computer program product comprising:

16 a set of program instructions for displaying to one particular user of a plurality of
17 users a plurality of shipping rates for shipping a parcel, each shipping rate corresponding to
18 delivery of the parcel at a particular delivery time on a particular delivery date by one of a
19 plurality of services offered by one of a plurality of carriers, wherein each user accesses the
20 computer system over a global communications network using a client computer device, and
21 wherein each user has an individual electronic connection to the global communications
22 network.

23

24 64. A computer program product embodying computer program instructions for
25 execution by a computer system for managing shipping of a plurality of parcels shipped by
26 any one of a plurality of carriers, the computer program product comprising:

27 a set of program instructions for prompting a user, in response to a user request for a
28 shipping rate and delivery time comparison, with an interactive prompt comprising a
29 plurality of cells, wherein each of said cells comprises an intersection of indications of a

1 parcel delivery date and a parcel delivery time and wherein at least one of said cells displays
2 for user selection a calculated shipping rate corresponding to a particular carrier delivering
3 said parcel at the indicated delivery time on the indicated delivery date according to a
4 particular service offered by the particular carrier.

5

6 65. A computer program product embodying computer program instructions for
7 execution by a computer system for managing shipping of a plurality of parcels shipped by
8 any one of a plurality of carriers, the computer program product comprising:

9 a set of program instructions for prompting one particular user of a plurality of users
10 with a service and carrier selection user prompt to select one of a plurality of services offered
11 by one of a plurality of carriers for shipping a particular parcel to be shipped by the particular
12 user, wherein each user accesses the computer system over a global communications network
13 using a client computer device, each user client computer device having an individual
14 electronic connection to the global communications network.

15

16 66. A computer program product embodying computer program instructions for
17 execution by a computer system for managing shipping of a plurality of parcels shipped by
18 any one of a plurality of carriers, the computer program product comprising:

19 a set of program instructions for collecting user input from one particular user of a
20 plurality of users of a selection by the particular user of a shipping rate, wherein said shipping
21 rate corresponds to one of a plurality of services offered by one of a plurality of carriers for
22 shipping said parcel wherein each user accesses the computer system over a global
23 communications network using a client computer device, each user client computer device
24 having an individual electronic connection to the global communications network.

25

26 67. A computer program product embodying computer program instructions for
27 execution by a computer system for managing shipping of a plurality of parcels shipped by
28 any one of a plurality of carriers, the computer program product comprising:

29 a set of program instructions for detecting a clicking by one particular user of a

1 plurality of users of a cell of an online interactive display containing a shipping rate as a
2 selection by the particular user of a particular service of a plurality of services offered by one
3 of a plurality of carriers, wherein said selected shipping rate corresponds to the particular
4 service offered by the particular carrier, wherein each user accesses the computer system over
5 a global communications network using a client computer device, and wherein each user has
6 an individual electronic connection to the global communications network.

7

8 68. A computer program product embodying computer program instructions for
9 execution by a computer system for managing shipping of a plurality of parcels shipped by
10 any one of a plurality of carriers, the computer program product comprising:

11 a set of program instructions for detecting a placement of a cursor by one particular
12 user of a plurality of users over a cell of an online interactive display containing a shipping
13 rate as a selection by the particular user of a particular service of a plurality of services
14 offered by one of a plurality of carriers, wherein said selected shipping rate corresponds to
15 the particular service offered by the particular carrier, wherein each user accesses the
16 computer system over a global communications network using a client computer device, and
17 wherein each user has an individual electronic connection to the global communications
18 network.

19

20 69. A computer program product embodying computer program instructions for
21 execution by a computer system for managing shipping of a plurality of parcels shipped by
22 any one of a plurality of carriers, the computer program product comprising:

23 a set of program instructions for responding to a clicking by one particular user of a
24 plurality of users of a cell of an online interactive display containing a shipping rate by
25 displaying an onscreen display of a shipping label for shipping a particular parcel with a
26 carrier and a service, wherein said selected cell contains a shipping rate that corresponds to
27 the corresponding service and carrier, wherein each user accesses the computer system over a
28 global communications network using a client computer device, and wherein each user has an
29 individual electronic connection to the global communications network.

1 70. An online interactive shipping management computer system, said computer
2 system programmed to:

3 instruct a particular remote user client computer from a plurality of remote computer
4 devices to regenerate a display of shipping information based on modified input by a
5 particular user to the particular remote user client computer device, wherein the computer
6 system communicates with each remote user client computer device over a global
7 communications network.

8

9 71. A method using a computer system for managing shipping of a plurality of
10 parcels shipped by any one of a plurality of carriers, the method comprising:

11 instructing a particular remote user client computer from a plurality of remote
12 computer devices to regenerate a display of shipping information based on modified input by
13 a particular user to the particular remote user client computer device, wherein the computer
14 system communicates with each remote user client computer device over a global
15 communications network.

16

17 72. A computer program product embodying computer program instructions for
18 execution by a computer system for managing shipping of a plurality of parcels shipped by
19 any one of a plurality of carriers, the computer program product comprising:

20 a set of program instructions for instructing a particular remote user client computer
21 from a plurality of remote computer devices to regenerate a display of shipping information
22 based on modified input by a particular user to the particular remote user client computer
23 device, wherein the computer system communicates with each remote user client computer
24 device over a global communications network.

25

26 73. A method using a computer system for regenerating a shipping information
27 display at a client computer device connected to the computer system over a global
28 communications network, the method comprising:

29 distributing to the client computer device an executable set of executed computer

1 instructions for generating an interactive user interface shipping information display, a set of
2 data input by a particular user from the client computer device, a set of at least one data
3 collection field and an instruction to execute the executable set of instructions in response to
4 a user modification of the set of data with input to at least one of the data collection fields.
5

6 74. A computer program product embodying computer program instructions for
7 execution by a computer system for regenerating an online shipping information display at a
8 client computer device, the computer program product comprising:

9 a set of program instructions for distributing to a remote user client computer device
10 an executable set of executed computer instructions for generating an interactive user
11 interface shipping information display, a set of data input by a particular user from the client
12 computer device, a set of at least one data collection field and an instruction to execute the
13 executable set of instructions in response to a user modification of the set of data with input
14 to at least one of the data collection fields, wherein the computer system communicates with
15 each remote user client computer device over a global communications network.
16

17 75. A method using a computer system for managing shipping of a plurality of
18 parcels shipped by any one of a plurality of carriers, the method comprising:

19 distributing to a client computer device connected to the computer system over a
20 global communications network an executable set of executed computer instructions for
21 generating an interactive user interface display, a set of parcel specifications and shipping
22 specifications data input by a particular user from the client computer device, a set of at least
23 one data collection field and an instruction to execute the executable set of instructions in
24 response to a user modification of the set of data with input to at least one of the data
25 collection fields.
26

27 76. A computer program product embodying computer program instructions for
28 execution by a client computer device, the computer program product comprising:

29 a set of program instructions for regenerating a display of shipping rates and delivery

1 schedules at any particular remote user client computer device of a plurality of remote user
2 client computer devices, based on modified parcel specification or shipping specification
3 input by a particular user at a particular remote user client computer device, wherein the set
4 of program instructions instruct the client computer to communicate with a shipping
5 management computer system over a global communications network to obtain rating
6 information.

7

8 77. A computer program product embodying computer program instructions for
9 execution by a computer system for managing shipping of a plurality of parcels shipped by
10 any one of a plurality of carriers, the computer program product comprising:

11 a set of program instructions for distributing to a client computer device connected to
12 the computer system over a global communications network an executable set of executed
13 computer instructions for generating an interactive user interface display, a set of parcel
14 specifications and shipping specifications data input by a particular user from the client
15 computer device, a set of at least one data collection field and an instruction to execute the
16 executable set of instructions in response to a user modification of the set of data with input
17 to at least one of the data collection fields.

18

19 78. An online interactive shipping management computer system, said computer
20 system programmed to:

21 distribute with an interactive user interface shipping information display to a remote
22 client computer device an executable set of executed computer instructions for generating an
23 interactive user interface shipping information display.

24

25 79. The online interactive shipping management computer system of Claim 78,
26 said computer system further programmed to:

27 distribute with the interactive user interface shipping information display to a remote
28 client computer device, a set of data input by a particular user from the client computer
29 device.

1
2 80. The online interactive shipping management computer system of Claim 79,
3 said computer system further programmed to:

4 distribute with the interactive user interface shipping information display to a remote
5 client computer device, a set of at least one data collection field and an instruction to execute
6 the executable set of instructions in response to a user modification of the set of data with
7 input to at least one of the data collection fields.

8
9 81. The online interactive shipping management computer system of Claim 80,
10 wherein the set of data input by a particular user comprises a set of parcel specifications and
11 shipping specifications data.

12
13 82. A method using a computer system for regenerating an online shipping
14 information display at a client computer device, the method comprising:

15 distributing with an interactive user interface shipping information display to a remote
16 client computer device an executable set of executed computer instructions for generating an
17 interactive user interface shipping information display.

18
19 83. The method of Claim 82, said method further comprising:
20 distributing with the interactive user interface shipping information display to a
21 remote client computer device, a set of data input by a particular user from the client
22 computer device.

23
24 84. The method of Claim 83, said method further comprising:
25 distributing with the interactive user interface shipping information display to a
26 remote client computer device, a set of at least one data collection field and an instruction to
27 execute the executable set of instructions in response to a user modification of the set of data
28 with input to at least one of the data collection fields.

1 85. The method of Claim 84, wherein the set of data input by a particular user
2 comprises a set of parcel specifications and shipping specifications data.

3

4 86. A computer program product embodying computer program instructions for
5 execution by a computer system for managing shipping of a plurality of parcels shipped by
6 any one of a plurality of carriers, the computer program product comprising:

7 a set of program instructions for distributing with an interactive user interface
8 shipping information display to a remote client computer device an executable set of
9 executed computer instructions for generating an interactive user interface shipping
10 information display.

11

12 87. The computer program product of Claim 86, said computer program product
13 further comprising:

14 a set of program instructions for distributing with the interactive user interface
15 shipping information display to a remote client computer device, a set of data input by a
16 particular user from the client computer device.

17

18 88. The computer program product of Claim 87, said computer program product
19 further comprising:

20 a set of program instructions for distributing with the interactive user interface
21 shipping information display to a remote client computer device, a set of at least one data
22 collection field and an instruction to execute the executable set of instructions in response to
23 a user modification of the set of data with input to at least one of the data collection fields.

24

25 89. The method of Claim 88, wherein the set of data input by a particular user
26 comprises a set of parcel specifications and shipping specifications data.

27

28

29

30

1 APPARATUS, SYSTEMS AND METHODS FOR ONLINE, MULTI-CARRIER, MULTI-
2 SERVICE PARCEL SHIPPING MANAGEMENT FEATURING SHIPPING RATE AND
3 DELIVERY SCHEDULE COMPARISON FOR MULTIPLE CARRIERS

4

5 ABSTRACT OF THE INVENTION

6

7 The present invention provides apparatus, systems and methods for displaying to each
8 of a plurality of users, upon each user's request, as to each particular parcel to be shipped by
9 each user, an online interactive graphic comparison of a plurality of shipping rates calculated
10 for each of a plurality of services offered by each of a plurality of carriers to ship a particular
11 parcel, each shipping rate corresponding to a particular service offered by a particular carrier
12 for delivering the particular parcel to a particular delivery destination at a particular parcel
13 delivery time on a particular parcel delivery date, wherein each user accesses the computer
14 system over a global communications network using a client computer device, and wherein
15 each user has an individual electronic connection to the global communications network. The
16 present invention provides apparatus, systems and methods for regenerating an online
17 interactive graphic comparison of a plurality of shipping rates calculated for each of a
18 plurality of services offered by each of a plurality of carriers, at any particular remote user
19 client computer device of a plurality of remote user client computer devices, based on
20 modified input by a user at a particular remote user client computer device, wherein the
21 present invention communicates with each remote user client computer device over a global
22 communications network.

23

24

25

26

27

28

29

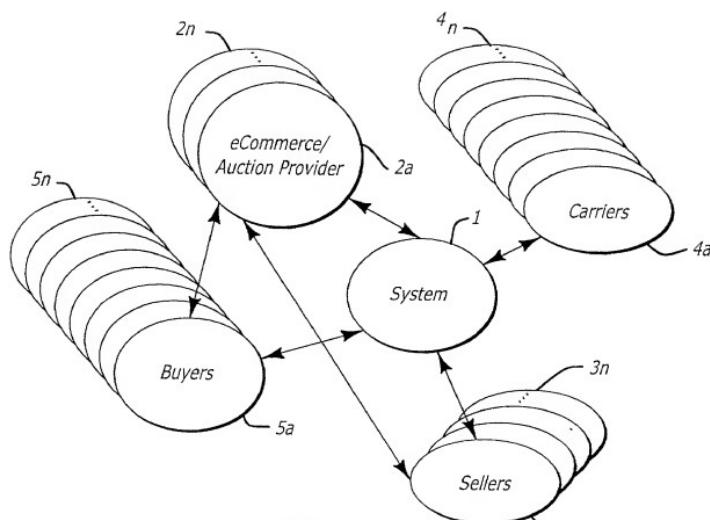


FIG. 1

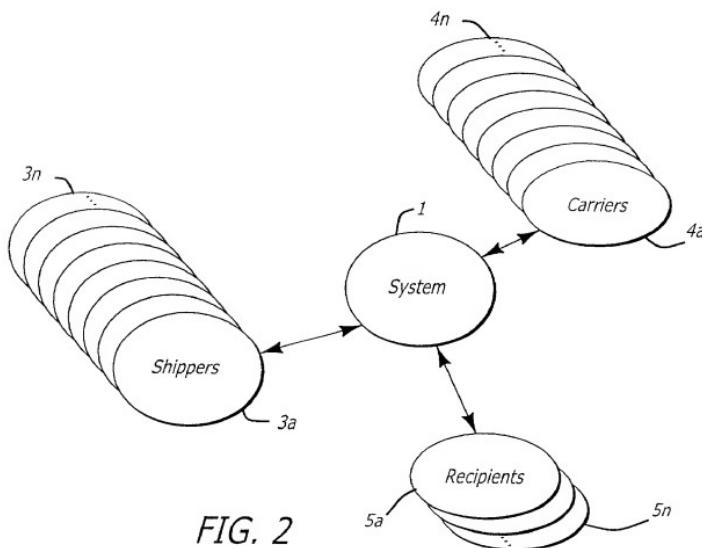


FIG. 2

FIG. 3

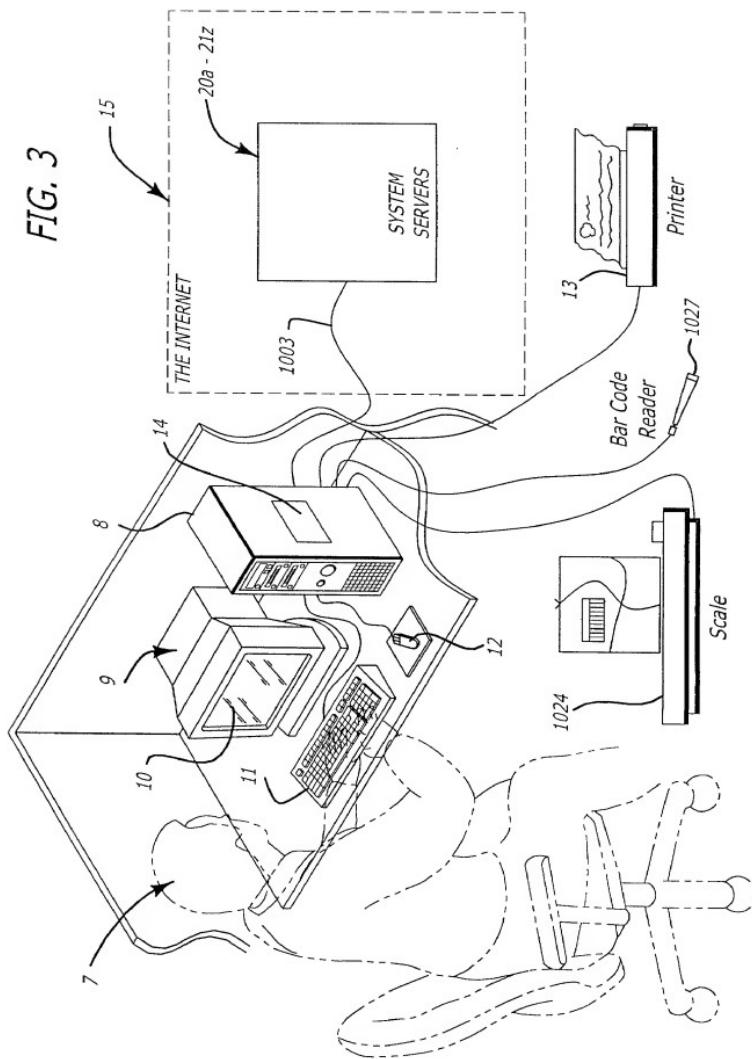
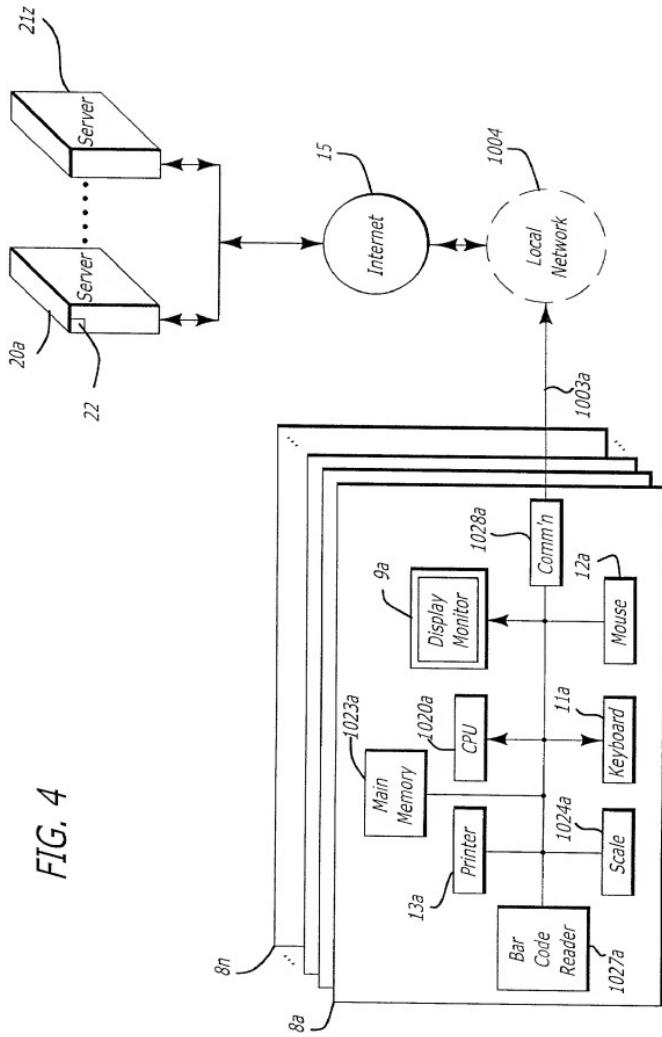


FIG. 4



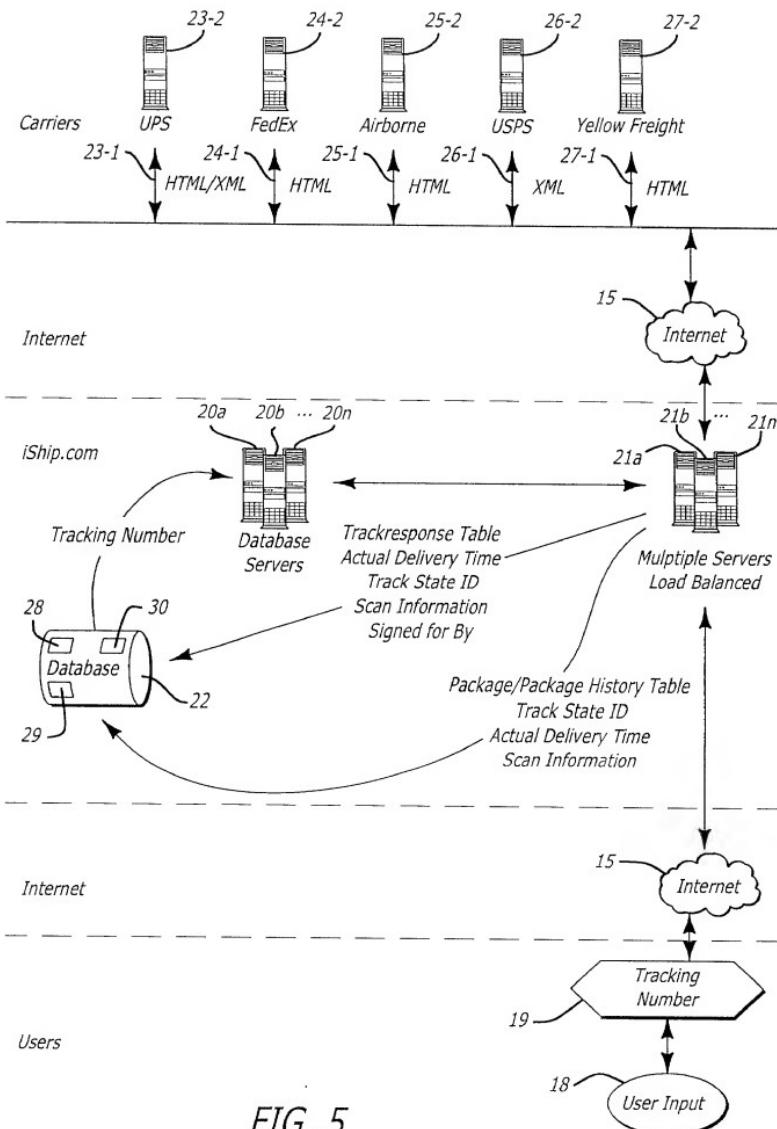


Diagram illustrating the architecture of an e-commerce system.

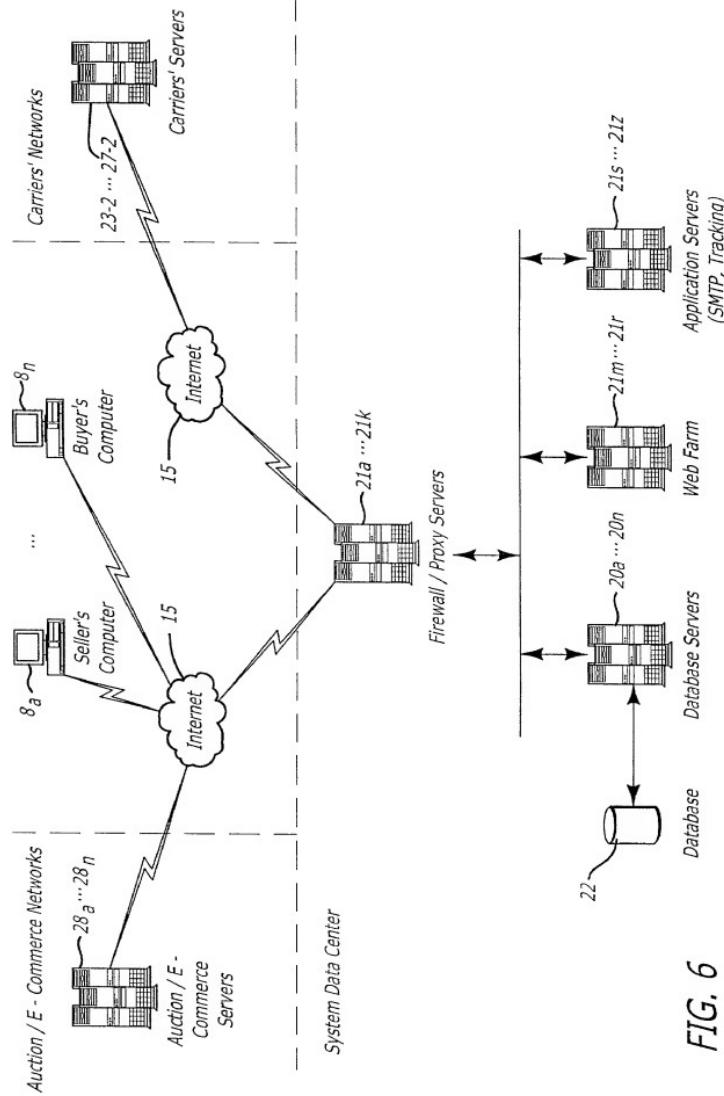


FIG. 6

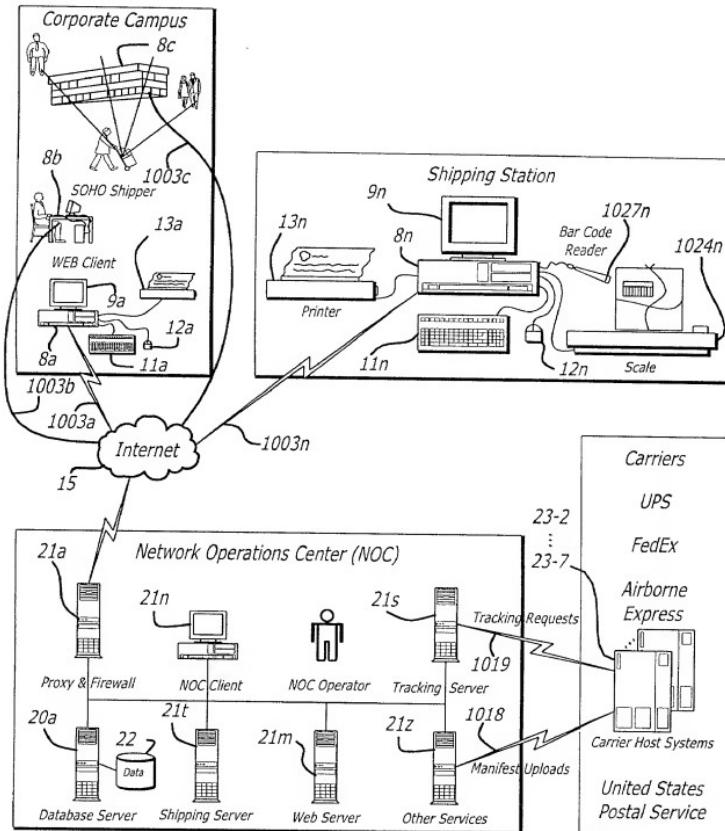


FIG. 7

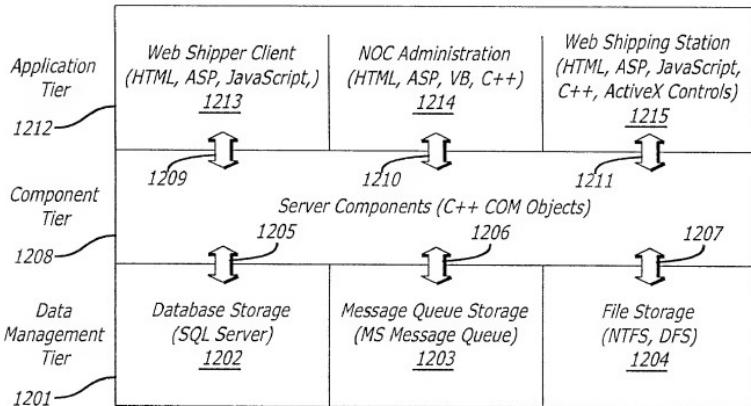


FIG. 8

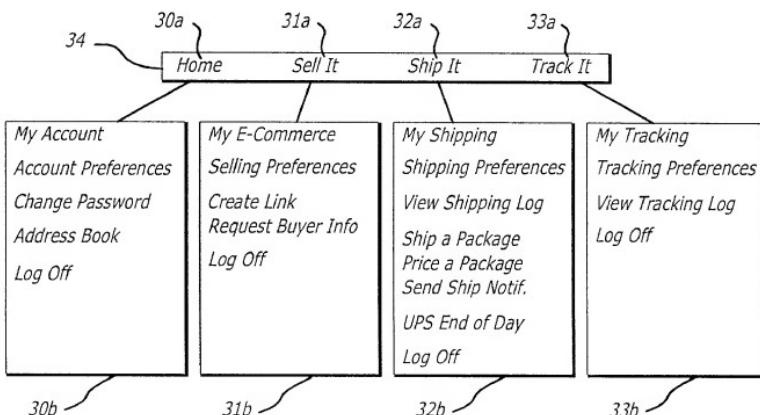


FIG. 9

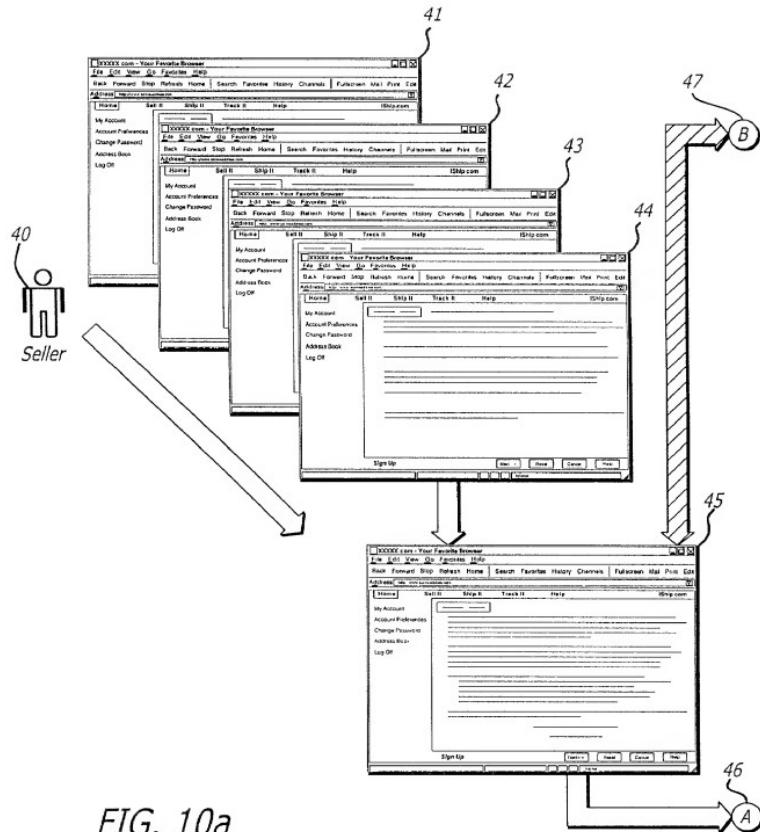


FIG. 10a

0123456789 - 1005610

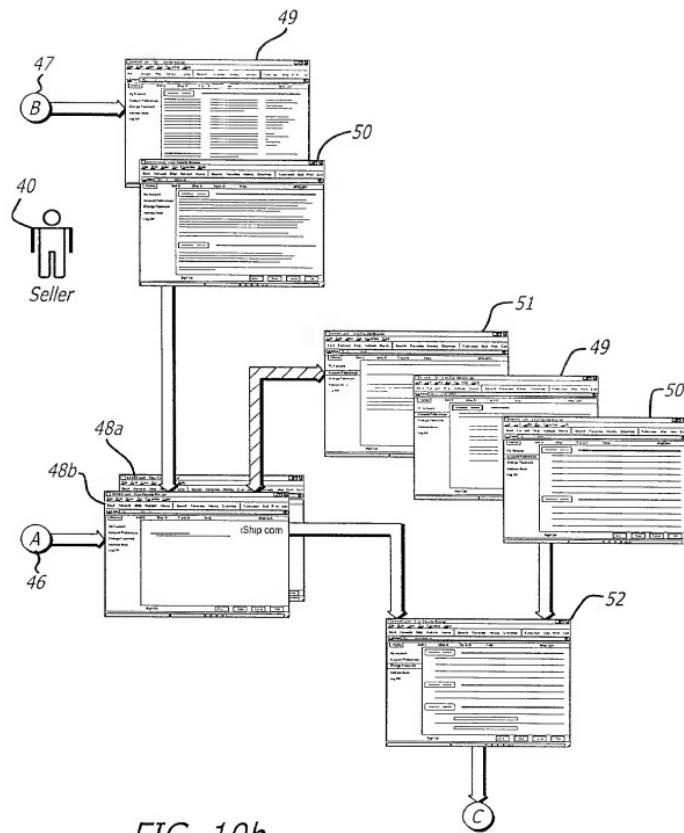


FIG. 10b

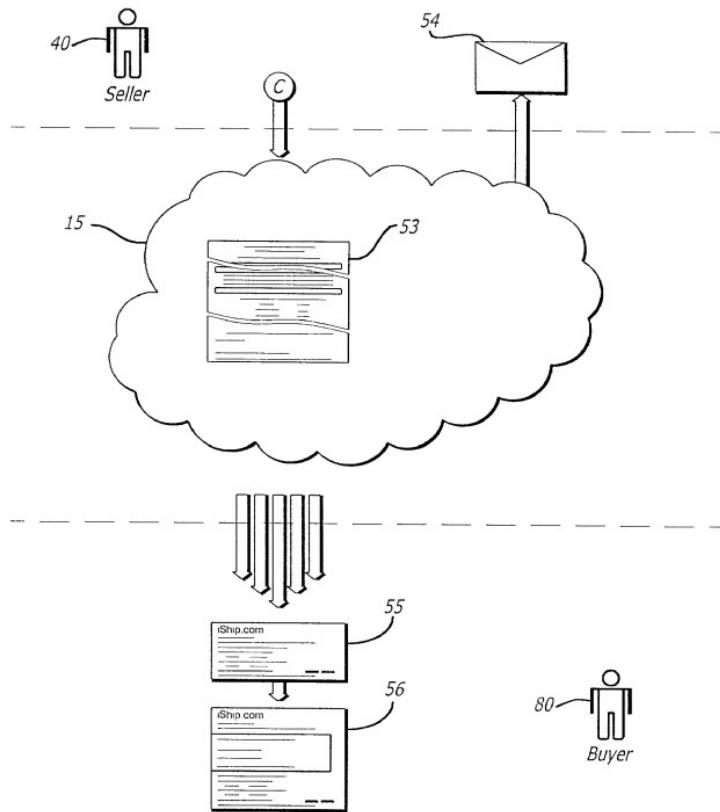


FIG. 10c

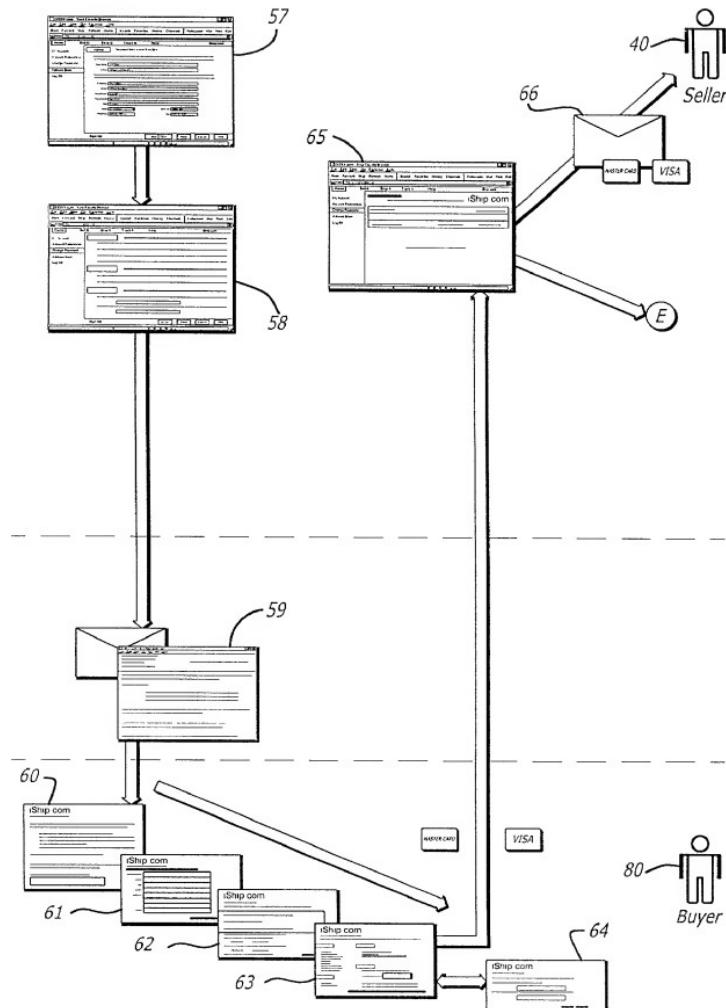
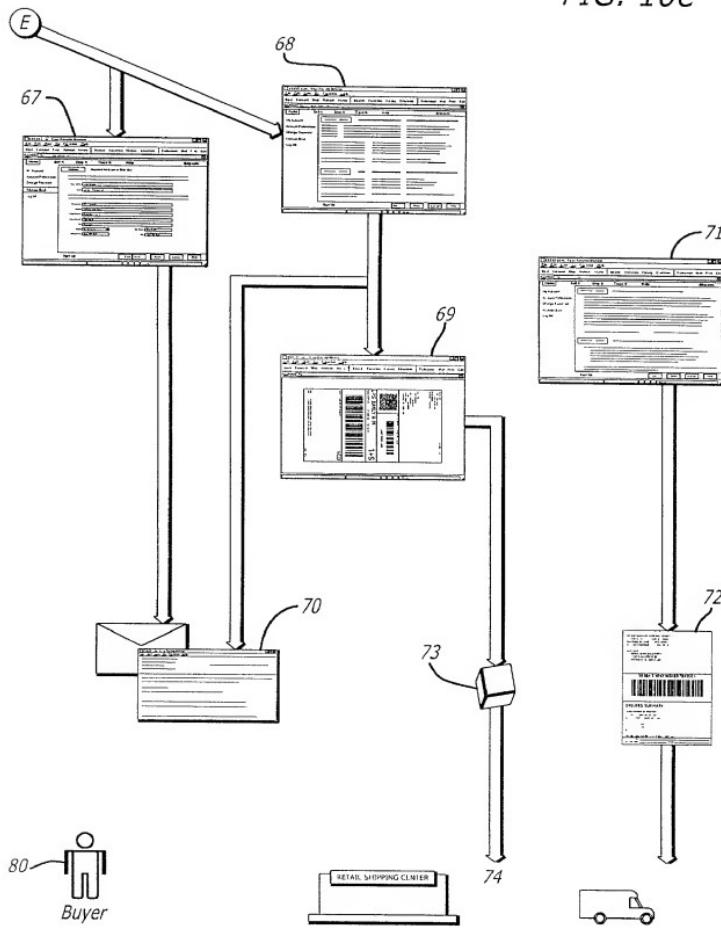


FIG. 10d

FIG. 10e



2013014769541

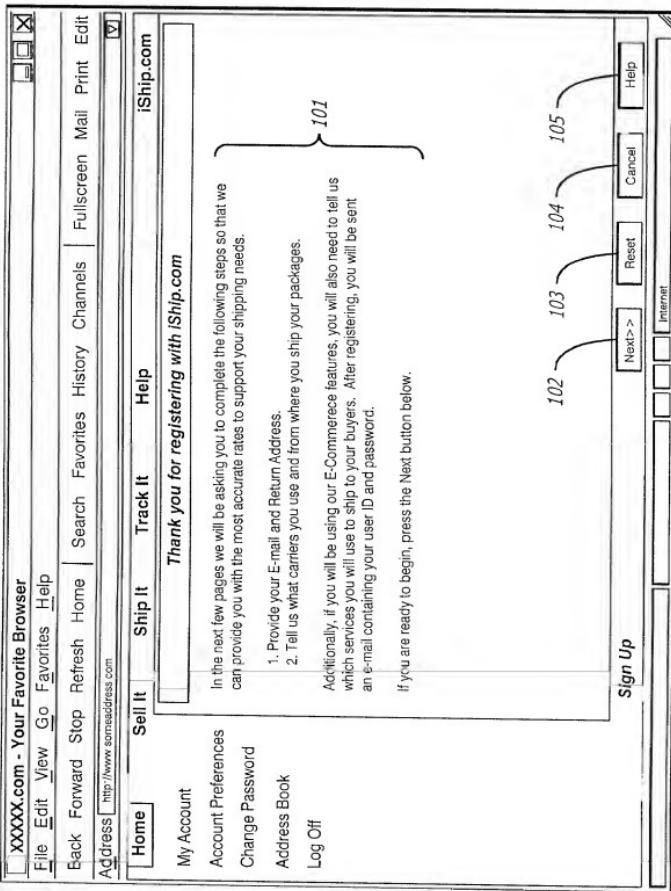


FIG. 11

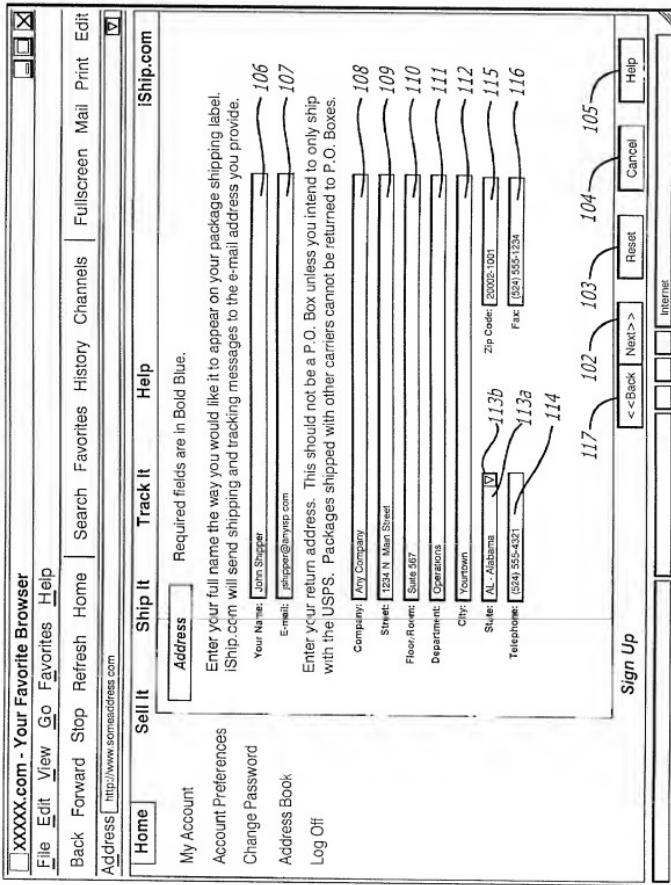


FIG. 12

XXXXX.com - Your Favorite Browser

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit

Address http://www.someaddress.com

Home	Sell it	Ship It	Track It	Help
-------------	----------------	----------------	-----------------	-------------

Location: Please pick your default shipping location.

I'll ship the package from: Regular pickup my location 121a

Note: You must have a laser printer and UPS Account to ship from this location using Ship.com.

Enter the City, State & Zip Code from which you will be shipping if different than your Return Address:

City: Yourtown 122

State: AL - Alabama 123b

Zip Code: 20002-0001 124

Sign Up << Back"/>

102

120a
120b
121a
121b
122
123a
123b
124

FIG. 13

Location Please pick your default shipping location.

I'll ship the package from:

LOCATION	PICKUP TIMES	COMMENT
Retail Shipping Center 2345 E. Elm Street Anytown, TX 23001-1001 (787) 555-9865	4:45 PM - FEDEX 3:30 PM - UPS	open 24 hours 7 days a week

NOTE: You must have a laser printer to ship from this location using iShip.com.

FIG. 14

Location Required fields are in **Bold Blue**.

Where will you ship your package from?:

LOCATION	PICKUP TIMES	COMMENT	MORE LOCATIONS
Any Company 1234 Main St N.E. Suite E110 Anytown, WA 98001	2:30 PM - FEDEX 2:30 PM - Airborne 2:30 PM - UPS	The Internet Package Shopper	<input type="button" value="Browse"/> <input type="checkbox"/>

Destination Zip Code:

Package If you are not using carrier packaging select Other Packaging and enter the package dimensions.

Packaging:	<input type="radio"/> Carrier Letter	<input type="radio"/> Carrier Box	<input type="radio"/> Weight: <input type="text"/> lbs
<input type="radio"/> Carrier Pak	<input type="radio"/> Carrier Tube	Price will vary if the estimated weight differs from the actual weight shipped	
<input type="radio"/> Other Packaging (Indicate size)		<input type="checkbox"/> Check here if your package needs Additional Handling	
Length: <input type="text"/> in.	Width: <input type="text"/> in.	See Help if you are not sure if Additional Handling Charges apply to your package	
Height: <input type="text"/> in.			

Compare Services

FIG. 15

xxxxx.com - Your Favorite Browser

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit

Address http://www.someaddress.com

Home Sell It Ship It Track It Help iShip.com

UPS Shipping Tell us if you want to ship your UPS packages using iShip.com

If you have a laser printer or ink/bubble jet printer either A) ship your UPS packages at retail shipping center or B) have your own UPS account you can use iShip.com to process your packages and print your labels. Select below how you would like to process your UPS packages.

140 I will use iShip.com to ship my UPS packages and I have my own UPS Account.

UPS Account Number: Scheduled Pickup time: AM PM

141 142 143 144

I will use iShip.com to ship my UPS packages but do not have a UPS Account. I will drop the packages off at my local retail shipping center. Please set my default Shipping Location to my retail shipping center.

I will not use iShip.com to ship my UPS packages.

If you have chosen to ship your UPS packages with iShip.com using your own UPS account, you will be notified by e-mail when UPS has activated your account for Internet based shipping. This typically takes two business days.

145

102

Sign Up

<< Back Next >> Reset Cancel Help

Internet

FIG. 16

XXXX.com - Your Favorite Browser

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit

Address: <http://www.someaddress.com>

Home Sell It Ship It Track It Help

E-Commerce

If you sell your products using online auctions, classified services or your own Web Site iShip.com can offer you a way to not only show your Buyers what they will pay for shipping, but also automate the entire post-sale process

We will help you notify the Buyer of the total sale price - including shipping, getting the Buyers shipping selections, getting the shipping address and even collecting credit card information for you to process. We can also let you add your business's handling charges without having to calculate percentages or subtotals. We do the work for you.

To setup your Selling Preferences you will need to do only three easy steps:

1. Select the services you will use to ship your products. The Buyers will see only the services you select.
2. Select how your shipping charges are displayed. Is your shipping included in the sale? Do you charge for handling? We will make sure the price is right.
3. Select what kinds of payment you accept. We will find out how the Buyer is going to pay. We will even collect credit card information for you to process.

You can set these preferences up now or later, but if you would like to do it now, press Continue. Otherwise, press Finish to complete registration.

150

152

Continue>>

Sign Up

<<Back Finish Reset Cancel Help Internet

152

FIG. 17

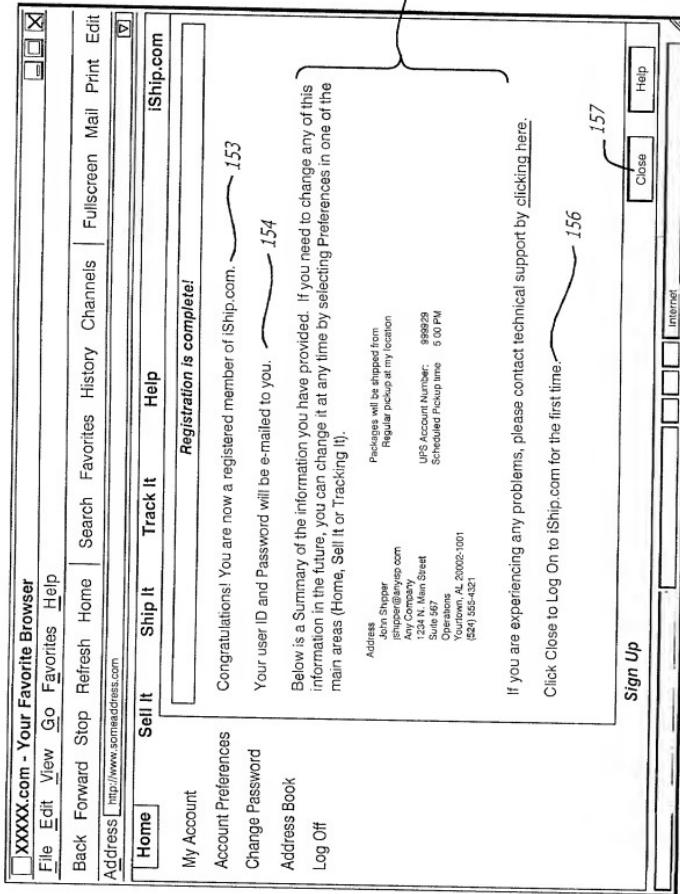


FIG. 18

<input type="checkbox"/> XXXX.com - Your Favorite Browser																																														
File Edit View Go Favorites Help																																														
Back Forward Stop Refresh Home																																														
Search Favorites History Channels																																														
Fullscreen Mail Print Edit																																														
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																																														
Address: http://www.someaddress.com																																														
<input type="button" value="Home"/> <input type="button" value="Sell It"/> <input type="button" value="Ship It"/> <input type="button" value="Track It"/> <input type="button" value="Help"/>																																														
<input type="button" value="Services"/> Check all that apply.																																														
<p>Select those services which you will use to ship your products. Only those services you have selected will be displayed when a Buyer views the rates.</p>																																														
<p><i>159</i></p>																																														
<table border="0"> <tr> <td><input type="checkbox"/> 160</td> <td><input type="checkbox"/> Airborne Express</td> <td><input type="checkbox"/> 161c</td> <td><input type="checkbox"/> Next Afternoon Service</td> <td><input type="checkbox"/> Second Day Service</td> </tr> <tr> <td><input type="checkbox"/> 161a</td> <td><input type="checkbox"/> Overnight Air Express</td> <td><input type="checkbox"/> 161b</td> <td><input type="checkbox"/> Priority Overnight</td> <td><input type="checkbox"/> Standard Overnight</td> </tr> <tr> <td><input type="checkbox"/> 162</td> <td><input type="checkbox"/> FedEx</td> <td><input type="checkbox"/> 163a</td> <td><input type="checkbox"/> Express Saver</td> <td><input type="checkbox"/> 163c</td> </tr> <tr> <td><input type="checkbox"/> 163d</td> <td><input type="checkbox"/> First Overnight</td> <td><input type="checkbox"/> 163b</td> <td><input type="checkbox"/> 2 Day</td> <td><input type="checkbox"/> 163e</td> </tr> <tr> <td><input type="checkbox"/> 164</td> <td><input type="checkbox"/> UPS</td> <td><input type="checkbox"/> 165a</td> <td><input type="checkbox"/> Ground</td> <td><input type="checkbox"/> Next Day Air</td> </tr> <tr> <td><input type="checkbox"/> 165d</td> <td><input type="checkbox"/> 2nd Day Air Early AM</td> <td><input type="checkbox"/> 165b</td> <td><input type="checkbox"/> Next Day Air Early AM</td> <td><input type="checkbox"/> 165c</td> </tr> <tr> <td><input type="checkbox"/> 165g</td> <td><input type="checkbox"/> 2nd Day Air AM</td> <td><input type="checkbox"/> 165g</td> <td><input type="checkbox"/> 2nd Day Air</td> <td><input type="checkbox"/> 165f</td> </tr> <tr> <td><input type="checkbox"/> 166</td> <td><input type="checkbox"/> USPS</td> <td><input type="checkbox"/> 167a</td> <td><input type="checkbox"/> Priority Mail</td> <td><input type="checkbox"/> Next Day Air Saver</td> </tr> <tr> <td><input type="checkbox"/> 167b</td> <td><input type="checkbox"/> Express Mail</td> <td><input type="checkbox"/> 167b</td> <td><input type="checkbox"/> Priority Mail</td> <td><input type="checkbox"/> Three Day Select</td> </tr> </table>		<input type="checkbox"/> 160	<input type="checkbox"/> Airborne Express	<input type="checkbox"/> 161c	<input type="checkbox"/> Next Afternoon Service	<input type="checkbox"/> Second Day Service	<input type="checkbox"/> 161a	<input type="checkbox"/> Overnight Air Express	<input type="checkbox"/> 161b	<input type="checkbox"/> Priority Overnight	<input type="checkbox"/> Standard Overnight	<input type="checkbox"/> 162	<input type="checkbox"/> FedEx	<input type="checkbox"/> 163a	<input type="checkbox"/> Express Saver	<input type="checkbox"/> 163c	<input type="checkbox"/> 163d	<input type="checkbox"/> First Overnight	<input type="checkbox"/> 163b	<input type="checkbox"/> 2 Day	<input type="checkbox"/> 163e	<input type="checkbox"/> 164	<input type="checkbox"/> UPS	<input type="checkbox"/> 165a	<input type="checkbox"/> Ground	<input type="checkbox"/> Next Day Air	<input type="checkbox"/> 165d	<input type="checkbox"/> 2nd Day Air Early AM	<input type="checkbox"/> 165b	<input type="checkbox"/> Next Day Air Early AM	<input type="checkbox"/> 165c	<input type="checkbox"/> 165g	<input type="checkbox"/> 2nd Day Air AM	<input type="checkbox"/> 165g	<input type="checkbox"/> 2nd Day Air	<input type="checkbox"/> 165f	<input type="checkbox"/> 166	<input type="checkbox"/> USPS	<input type="checkbox"/> 167a	<input type="checkbox"/> Priority Mail	<input type="checkbox"/> Next Day Air Saver	<input type="checkbox"/> 167b	<input type="checkbox"/> Express Mail	<input type="checkbox"/> 167b	<input type="checkbox"/> Priority Mail	<input type="checkbox"/> Three Day Select
<input type="checkbox"/> 160	<input type="checkbox"/> Airborne Express	<input type="checkbox"/> 161c	<input type="checkbox"/> Next Afternoon Service	<input type="checkbox"/> Second Day Service																																										
<input type="checkbox"/> 161a	<input type="checkbox"/> Overnight Air Express	<input type="checkbox"/> 161b	<input type="checkbox"/> Priority Overnight	<input type="checkbox"/> Standard Overnight																																										
<input type="checkbox"/> 162	<input type="checkbox"/> FedEx	<input type="checkbox"/> 163a	<input type="checkbox"/> Express Saver	<input type="checkbox"/> 163c																																										
<input type="checkbox"/> 163d	<input type="checkbox"/> First Overnight	<input type="checkbox"/> 163b	<input type="checkbox"/> 2 Day	<input type="checkbox"/> 163e																																										
<input type="checkbox"/> 164	<input type="checkbox"/> UPS	<input type="checkbox"/> 165a	<input type="checkbox"/> Ground	<input type="checkbox"/> Next Day Air																																										
<input type="checkbox"/> 165d	<input type="checkbox"/> 2nd Day Air Early AM	<input type="checkbox"/> 165b	<input type="checkbox"/> Next Day Air Early AM	<input type="checkbox"/> 165c																																										
<input type="checkbox"/> 165g	<input type="checkbox"/> 2nd Day Air AM	<input type="checkbox"/> 165g	<input type="checkbox"/> 2nd Day Air	<input type="checkbox"/> 165f																																										
<input type="checkbox"/> 166	<input type="checkbox"/> USPS	<input type="checkbox"/> 167a	<input type="checkbox"/> Priority Mail	<input type="checkbox"/> Next Day Air Saver																																										
<input type="checkbox"/> 167b	<input type="checkbox"/> Express Mail	<input type="checkbox"/> 167b	<input type="checkbox"/> Priority Mail	<input type="checkbox"/> Three Day Select																																										
<p><i>161c</i></p>																																														
<p><i>161b</i></p>																																														
<p><i>163c</i></p>																																														
<p><i>163e</i></p>																																														
<p><i>165c</i></p>																																														
<p><i>165f</i></p>																																														
<p><i>167b</i></p>																																														
<p><i>102</i></p>																																														
<input type="button" value="Sign Up"/> <input type="button" value="<< Back"/> <input type="button" value="Next >>"/> <input type="button" value="Reset"/> <input type="button" value="Cancel"/> <input type="button" value="Help"/>																																														
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Internet																																														

FIG. 19

File Edit View Go Favorites Help
Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit
Address http://www.someaddress.com

My Ship Price It Ship It Track It Account Info Help

Services Check all that apply.

Select those services which you will use to ship your products. Only those you have selected will be displayed when a Buyer views the rates.

My Pricing Price & Package Address Book My Selling Create Links Request Buyer Info Price Preferences Log Off

Airborne Express Overnight Air Express Next Afternoon Service Second Day Service

FedEx First Overnight Priority Overnight Standard Overnight

2 Day 2 Day Express Saver

UPS Next Day Air Early AM Next Day Air Next Day Air Saver

2nd Day Air AM 2nd Day Air 3 Day Select

Ground Express Mail Priority Mail Parcel Post

Pricing Preferences Next>> Cancel Help Internet

FIG. 20

XXXXX.com - Your Favorite Browser

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit Address http://www.somemadeclicks.com

Home Sell It Ship It Track It Help

Charges Select how you want your Buyer's shipping charges.

170 Item cost includes shipping charges. No rates are displayed, only services available.

171 Buyer pays actual shipping charges.

172 Buyer pays shipping and additional charges. Select charges to be added to the shipping Total displayed to the Buyer. Check all that apply.

173 Add Percentage of Shipping Cost %

174 Add Fixed Handling Charge \$

175 Add Ship.com Service Fee

176

Payment Select what Payment Methods you will accept from the Buyer.

Indicate if you want credit card information to be collected and passed on for your process.

179a Check all that apply.

179b Visa

179c American Express

179d Personal Check

179e MasterCard

179f Discover

179g Money Order

179h Cashier's check

179i Money Order

179j Credit card information so that I can process it myself.

152

Sign Up

<< Back | | Reset | Cancel | Help | Internet

FIG. 21

<input type="checkbox"/> XXXX.com - Your Favorite Browser			
File Edit View Go Favorites Help			
Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit			
Address: http://www.somedomain.com			
My Ship Price It Ship It Track It Account Info Help			
<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; vertical-align: top;"> My Pricing Price a Package Address Book My Selling Create Links Request Buyer Info Price Preferences Log Off </td> <td style="width: 85%; vertical-align: top;"> <p>Charges Select how you want to display your Buyer's shipping charges.</p> <p><input type="radio"/> Item Cost includes shipping charges. No rates are displayed, only services available. <input type="radio"/> Buyer pays actual shipping charges. <input type="radio"/> Buyer pays shipping and additional charges. Select charges to be added to the shipping Total displayed to the Buyer. Check all that apply.</p> <p><input type="checkbox"/> Add Percentage of Shipping Cost <input style="width: 40px; height: 15px; margin-left: 10px;" type="text"/> % <input type="checkbox"/> Add Fixed Handling Charge <input style="width: 40px; height: 15px; margin-left: 10px;" type="text"/> <input type="checkbox"/> Add iShip.com Service Fee</p> <p>Payment Select what Payment Methods you will accept from the Buyer. Indicate if you want credit card information to be collected and passed on for your process. Check all that apply.</p> <p><input checked="" type="checkbox"/> Visa <input checked="" type="checkbox"/> American Express <input checked="" type="checkbox"/> Personal Check <input checked="" type="checkbox"/> Cashier's check <input checked="" type="checkbox"/> MasterCard <input checked="" type="checkbox"/> Discover <input checked="" type="checkbox"/> Money Order</p> <p><input checked="" type="checkbox"/> Collect credit card information so that I can process it myself.</p> </td> </tr> </table>		My Pricing Price a Package Address Book My Selling Create Links Request Buyer Info Price Preferences Log Off	<p>Charges Select how you want to display your Buyer's shipping charges.</p> <p><input type="radio"/> Item Cost includes shipping charges. No rates are displayed, only services available. <input type="radio"/> Buyer pays actual shipping charges. <input type="radio"/> Buyer pays shipping and additional charges. Select charges to be added to the shipping Total displayed to the Buyer. Check all that apply.</p> <p><input type="checkbox"/> Add Percentage of Shipping Cost <input style="width: 40px; height: 15px; margin-left: 10px;" type="text"/> % <input type="checkbox"/> Add Fixed Handling Charge <input style="width: 40px; height: 15px; margin-left: 10px;" type="text"/> <input type="checkbox"/> Add iShip.com Service Fee</p> <p>Payment Select what Payment Methods you will accept from the Buyer. Indicate if you want credit card information to be collected and passed on for your process. Check all that apply.</p> <p><input checked="" type="checkbox"/> Visa <input checked="" type="checkbox"/> American Express <input checked="" type="checkbox"/> Personal Check <input checked="" type="checkbox"/> Cashier's check <input checked="" type="checkbox"/> MasterCard <input checked="" type="checkbox"/> Discover <input checked="" type="checkbox"/> Money Order</p> <p><input checked="" type="checkbox"/> Collect credit card information so that I can process it myself.</p>
My Pricing Price a Package Address Book My Selling Create Links Request Buyer Info Price Preferences Log Off	<p>Charges Select how you want to display your Buyer's shipping charges.</p> <p><input type="radio"/> Item Cost includes shipping charges. No rates are displayed, only services available. <input type="radio"/> Buyer pays actual shipping charges. <input type="radio"/> Buyer pays shipping and additional charges. Select charges to be added to the shipping Total displayed to the Buyer. Check all that apply.</p> <p><input type="checkbox"/> Add Percentage of Shipping Cost <input style="width: 40px; height: 15px; margin-left: 10px;" type="text"/> % <input type="checkbox"/> Add Fixed Handling Charge <input style="width: 40px; height: 15px; margin-left: 10px;" type="text"/> <input type="checkbox"/> Add iShip.com Service Fee</p> <p>Payment Select what Payment Methods you will accept from the Buyer. Indicate if you want credit card information to be collected and passed on for your process. Check all that apply.</p> <p><input checked="" type="checkbox"/> Visa <input checked="" type="checkbox"/> American Express <input checked="" type="checkbox"/> Personal Check <input checked="" type="checkbox"/> Cashier's check <input checked="" type="checkbox"/> MasterCard <input checked="" type="checkbox"/> Discover <input checked="" type="checkbox"/> Money Order</p> <p><input checked="" type="checkbox"/> Collect credit card information so that I can process it myself.</p>		
<i>181</i>			
Pricing Preferences			
<input type="button" value="<< Back"/> <input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Help"/>			
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Internet			

FIG. 22

DISCOUNTED PAYMENT

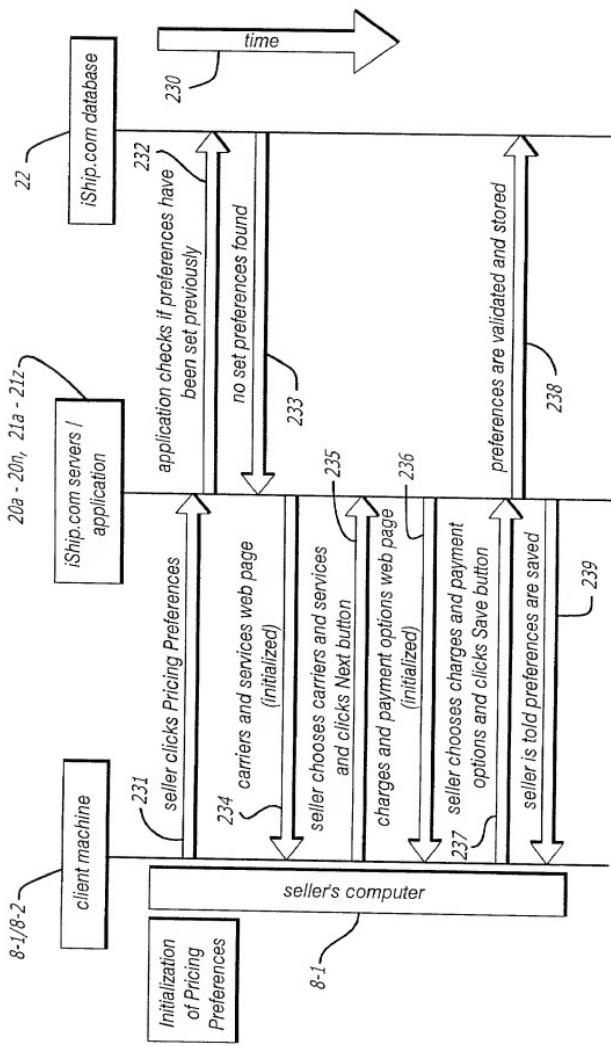


FIG. 23

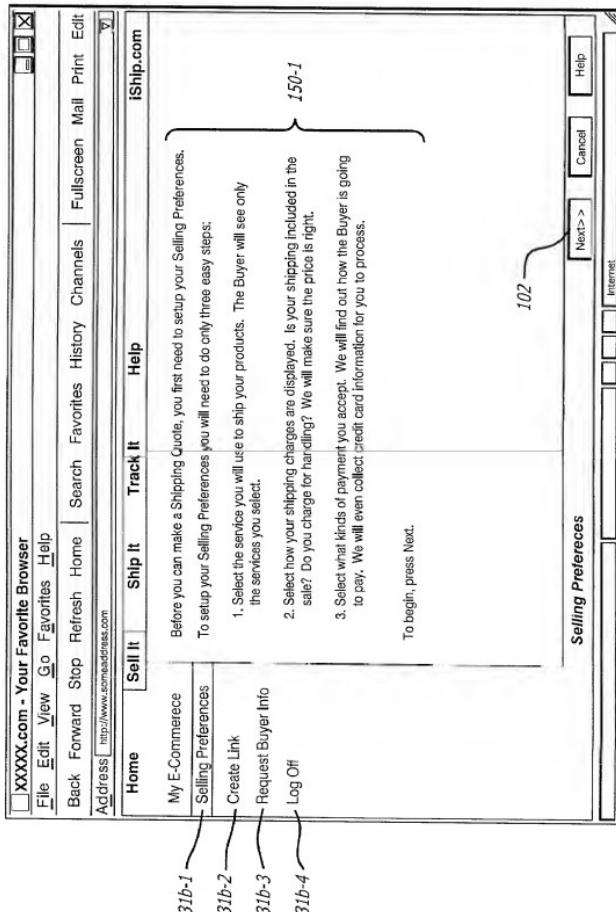


FIG. 24

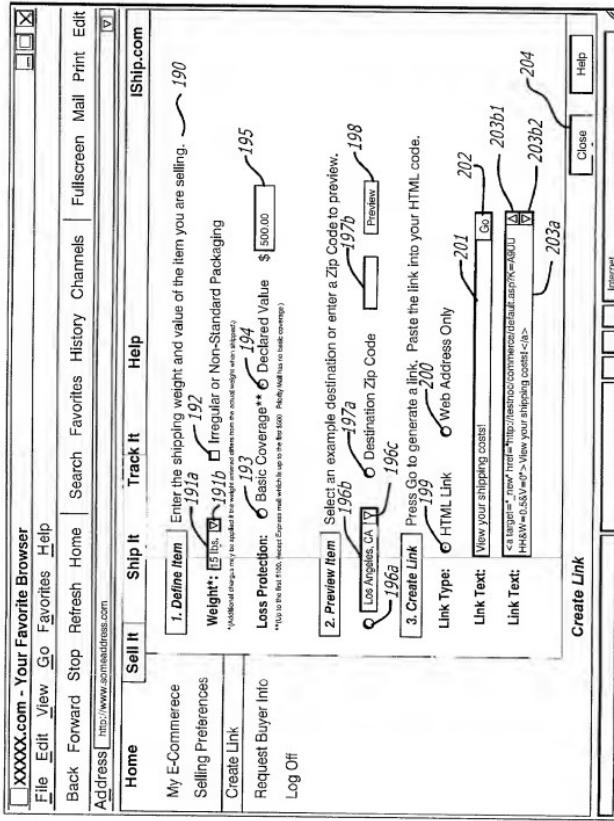


FIG. 25

1074 1075

<p>Location Required fields are in Bold Blue.</p> <p>Where will you ship your package from?: <input type="checkbox"/> Will drop off at Carrier Drop Box <input checked="" type="checkbox"/> 1040</p> <p>NOTE: You must have a laser printer and credit card to ship from this location using iShip.com.</p> <p>Enter the Origin and Destination Zip Codes for your package.</p> <p>Origin Zip Code: <input type="text"/> 99999-9999 1053</p> <p>Destination Zip Code: <input type="text"/> 99999-9999 1042</p>	
<p>Package If you are not using carrier packaging select Other Packaging and enter the package dimensions</p> <p>Packaging: <input type="radio"/> Carrier Letter 1046 <input type="radio"/> Carrier Box 1047 <input type="radio"/> Weight: <input type="text"/> lbs 1051 <input type="radio"/> Carrier Pak 1044 <input type="radio"/> Carrier Tube 1047 <input type="radio"/> Other Packaging (Indicate size) 1045 <input type="radio"/> 1052 <input type="checkbox"/> Check here if your package needs Additional Handling. <small>Price will vary if the estimated weight differs from the actual weight shipped</small></p> <p>Length: <input type="text"/> in. Width: <input type="text"/> in.</p> <p>Height: <input type="text"/> in. 1050</p> <p>See Help if you are not sure if Additional Handling Charges apply to your package</p>	
<p>Compare Services</p> <p><input type="button"/> Next>> 1049 <input type="button"/> Reset 1048 <input type="button"/> Cancel 102 <input type="button"/> Help 103 104 105</p>	

FIG. 26

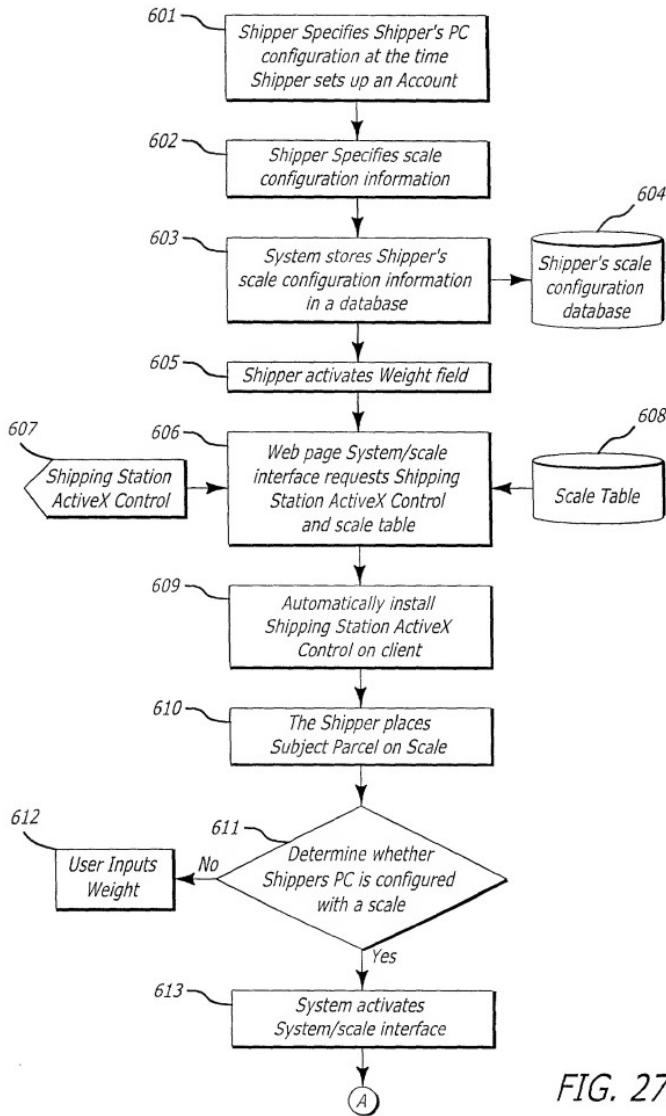


FIG. 27a

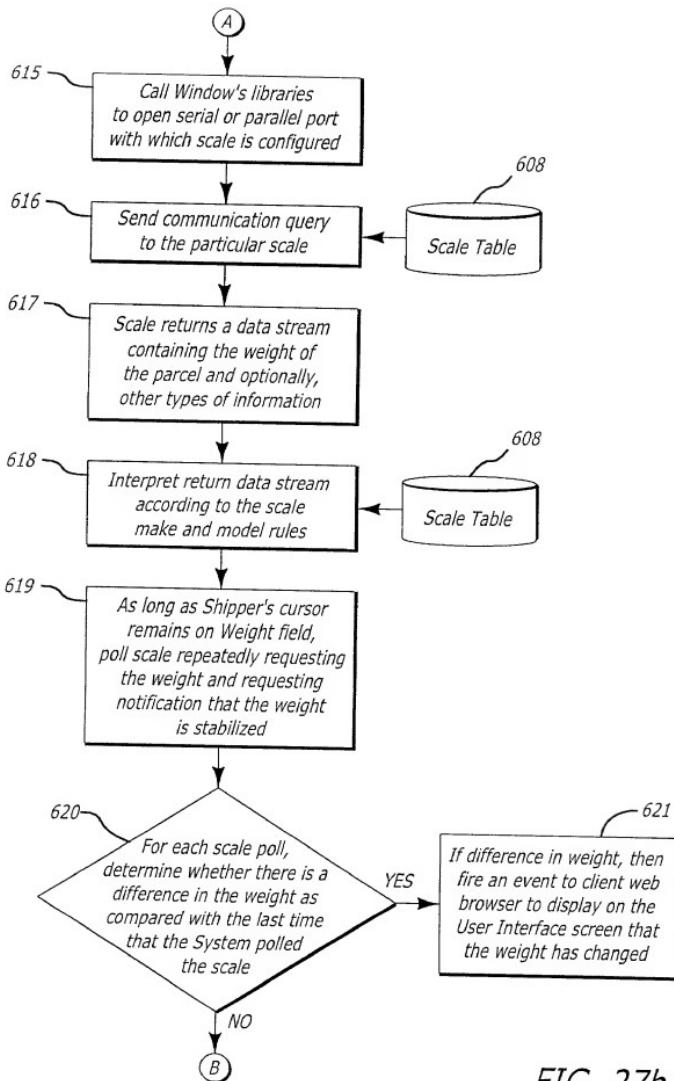


FIG. 27b

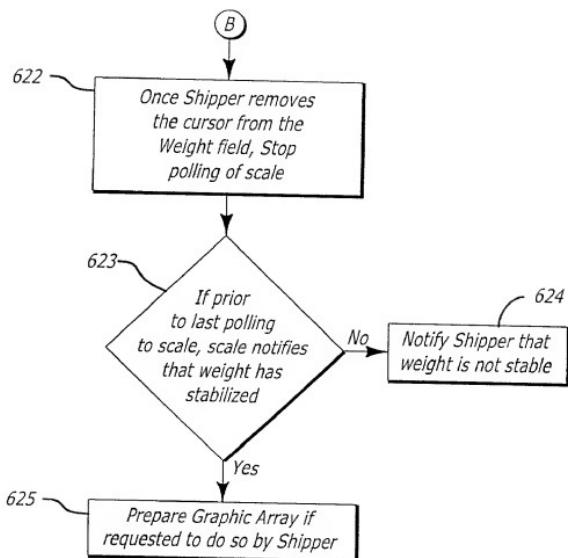


FIG. 27c

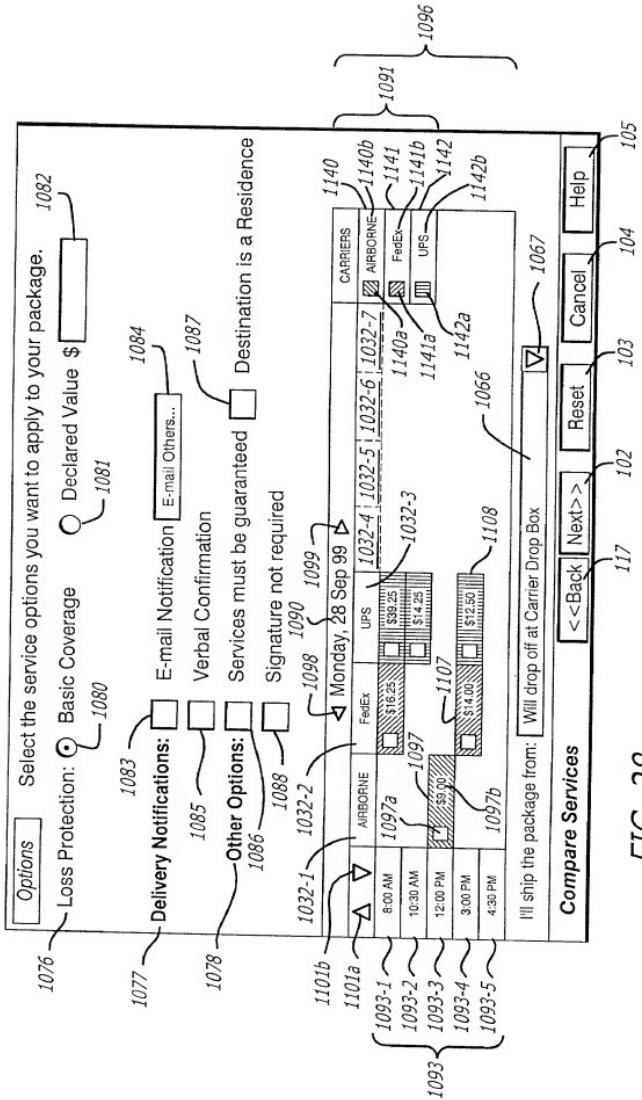


FIG. 28

FIG. 29

XXXXX.com - Your Favorite Browser

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit

Address: <http://www.shipheadstrack.com>

My iShip **Price It** **Ship It** **Track It** **Account Info** **Help**

1. Define Item Enter the shipping weight and value of the item.

Weight*: 10 lbs Irregular or Non-Standard Packaging

*Merchant charges may be applied if a regular service offer turns the actual weight when shipped

2. Preview Item Select an example destination or enter a Zip Code to preview.

(Select One) Destination Zip Code Preview

3. Create Link Press Go to generate a link. Paste the link into your HTML code.

Link Type: HTML Link Web Address Only

Link Text: [Click here to use iShip.com to view your shipping charges.](#)

Click here to view your shipping charges.
K=46V1Z&ZW=103Y=03H=0> Click here to use

Create Link Internet

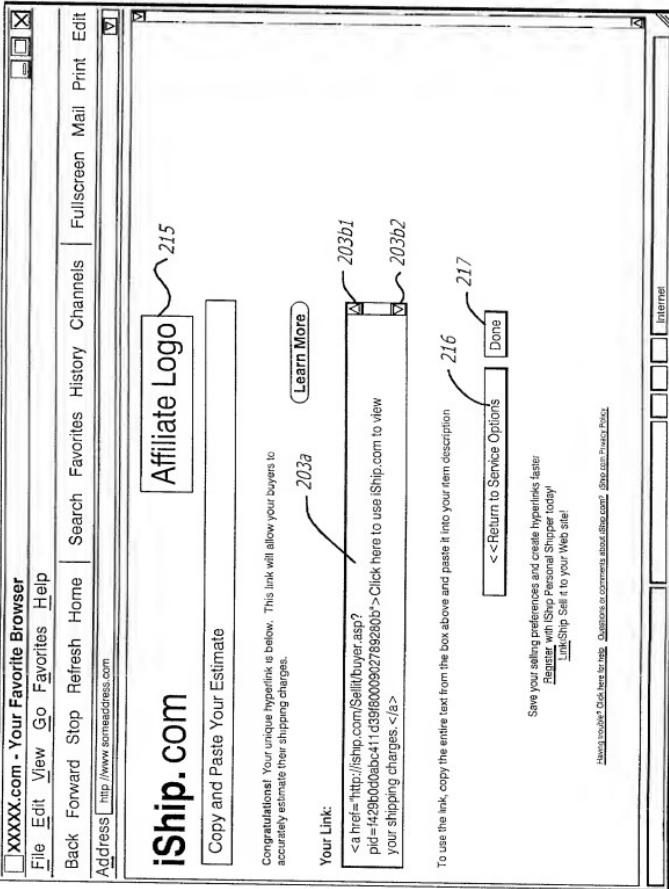


FIG. 30

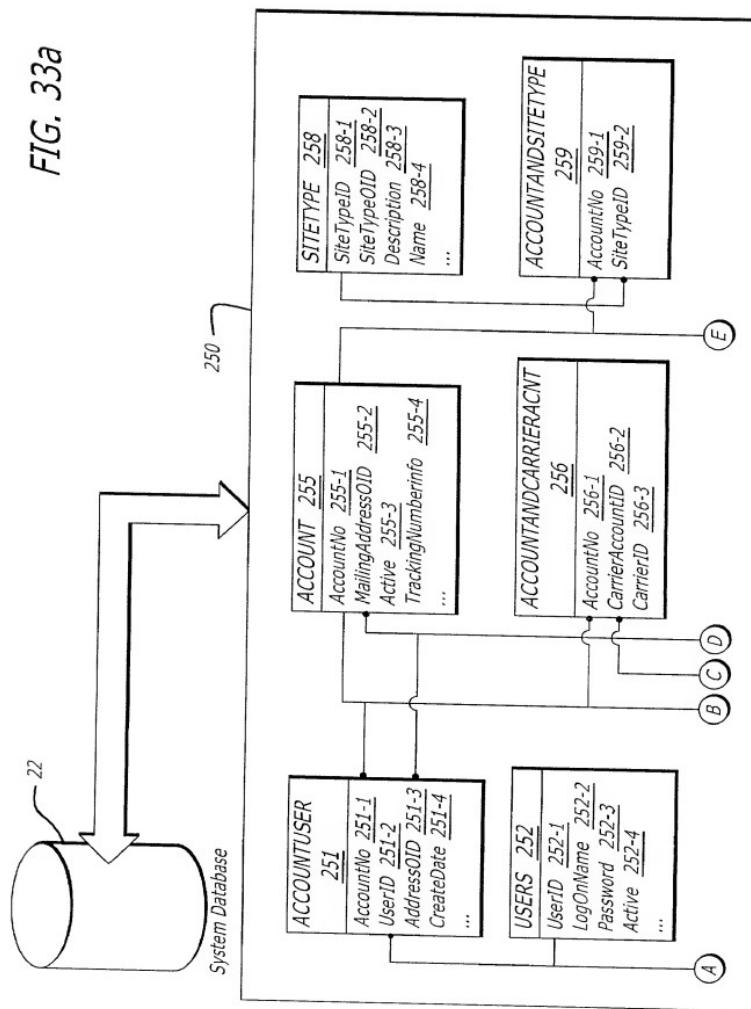
< a target=_new
210
href="http://iship.com/commerce/default.asp?K=A6V1XZ
210-1
210-2
&W=10&V=0&H=0">View Your Shipping Costs!
211 212 213 214

FIG. 31

< a href="http://iship.com/Sellit/buyer.asp?
pid=f429b0d0abc411d39f8000902789280b"
220
>Click here to use iShip.com to view your shipping charges.
214

FIG. 32

FIG. 33a



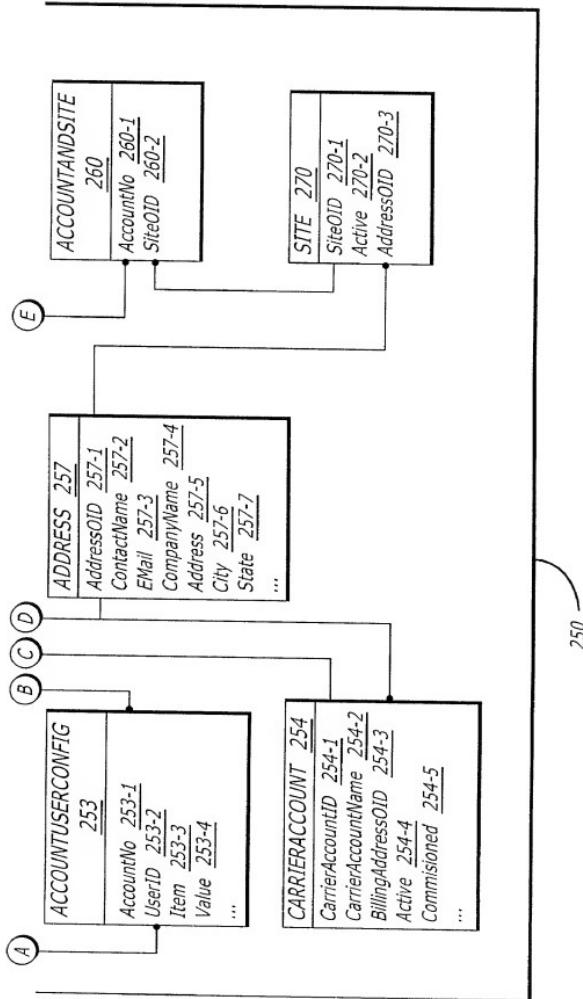


FIG. 33b

ANSWER: Discussion

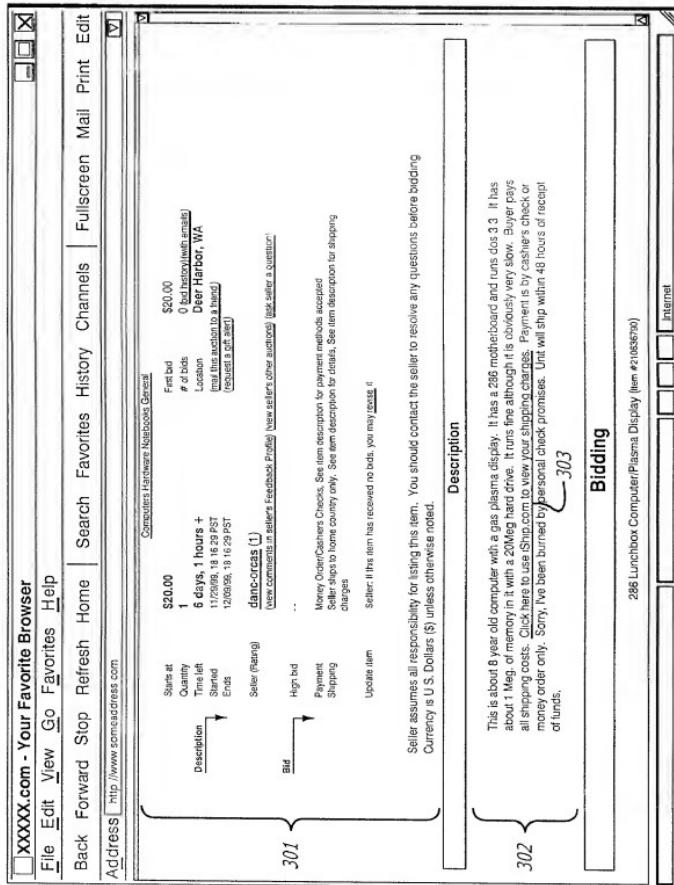


FIG. 34

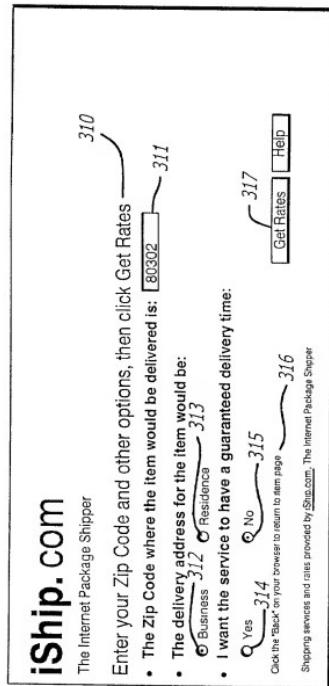


FIG. 35

Rates & Times		Click on the price to select a delivery date, time and carrier.		Date you expect to ship your package:		9/27/99 - Today		1061	
1063-1		1063-2		1063-3		1063-4		1063-5	
1064-1	1071-1-1 TUE 28 SEP 99	1071-1-2 WED 29 SEP 99	1063-2 THU 30 SEP 99	1063-3 FRI 1/4/00	1063-4 SAT 2/4/00	1063-5 SUN 3/4/00	1063-6 MON 4/4/00	1063-7 TUE 5/4/00	CARRIERS
1064-2	8:00 AM \$39.25	8:00 AM \$16.25	8:00 AM \$14.25	8:00 AM \$9.00	8:00 AM \$11.75	8:00 AM \$11.75	8:00 AM \$8.50	8:00 AM \$8.50	Airborne
1064-3	10:30 AM \$11.47	10:30 AM \$14.25	10:30 AM \$14.25	10:30 AM \$9.00	10:30 AM \$11.75	10:30 AM \$11.75	10:30 AM \$8.50	10:30 AM \$8.50	FedEx
1065-3	11:47-8 1147	11:47-8 1147	11:47-8 1147	11:47-8 1147	11:47-8 1147	11:47-8 1147	11:47-8 1147	11:47-8 1147	UPS
1065-5	12:00 PM 1065	12:00 PM 1065	12:00 PM 1065	12:00 PM 1065	12:00 PM 1065	12:00 PM 1065	12:00 PM 1065	12:00 PM 1065	USPS
1064-4	1:00 PM 1064-4	1:00 PM 1064-4	1:00 PM 1064-4	1:00 PM 1064-4	1:00 PM 1064-4	1:00 PM 1064-4	1:00 PM 1064-4	1:00 PM 1064-4	iSHIP.COM
1064-5	3:00 PM 1064-5	3:00 PM 1064-5	3:00 PM 1064-5	3:00 PM 1064-5	3:00 PM 1064-5	3:00 PM 1064-5	3:00 PM 1064-5	3:00 PM 1064-5	WILL NOT CREATE SHIPPING LABEL
1064-6	4:30 PM 1064-6	4:30 PM 1064-6	4:30 PM 1064-6	4:30 PM 1064-6	4:30 PM 1064-6	4:30 PM 1064-6	4:30 PM 1064-6	4:30 PM 1064-6	1063-6
									1062
									1068
								Find Location	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	
								103	
								102	
								117	
								1068	
								1067	
								1066	
								1065	
								105	
								104	

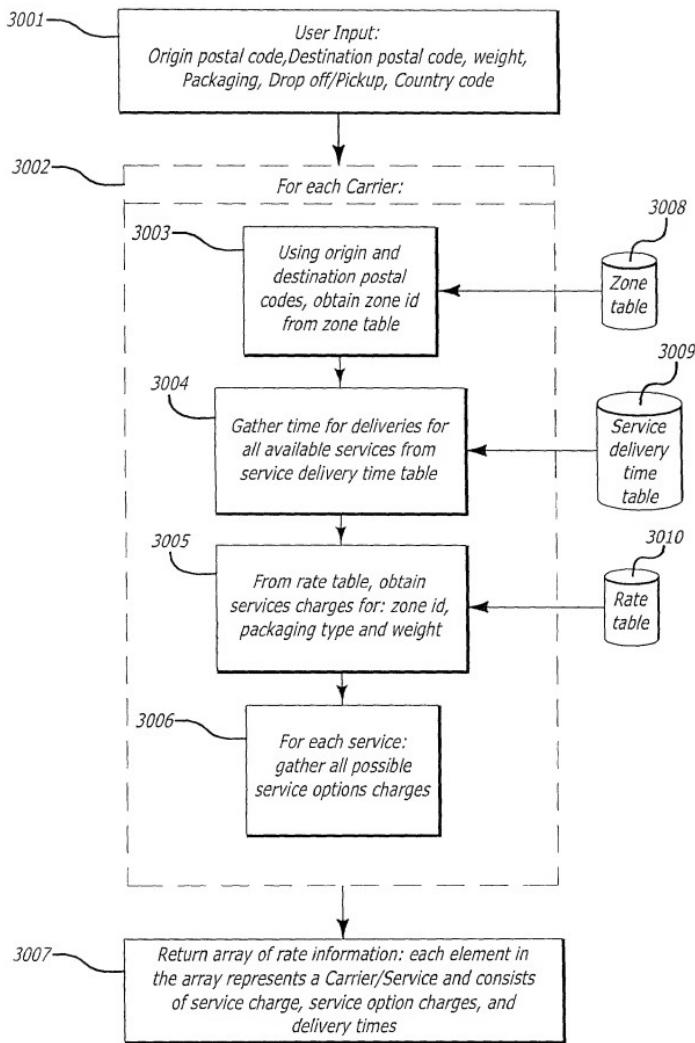


FIG. 36b

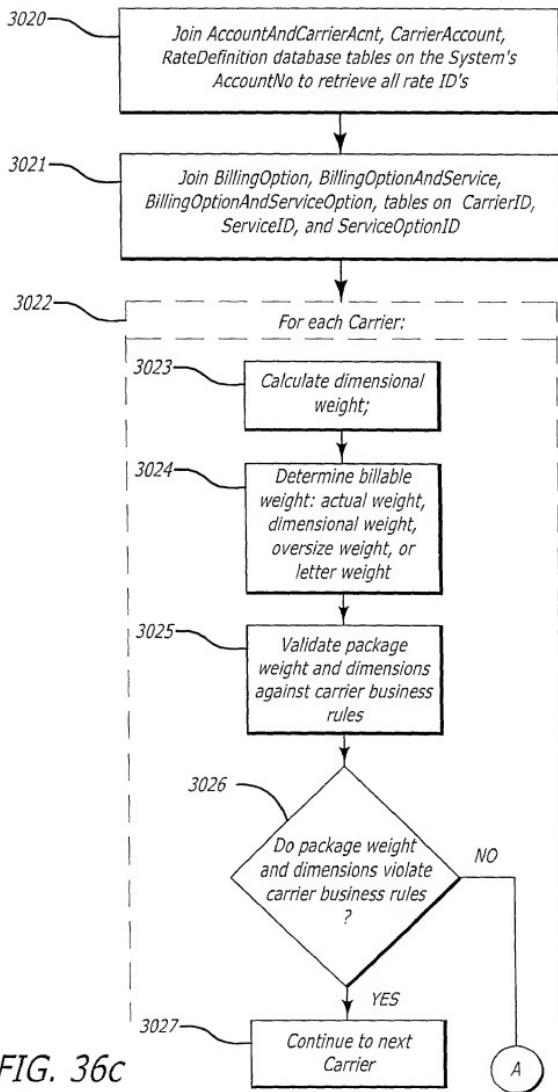


FIG. 36c

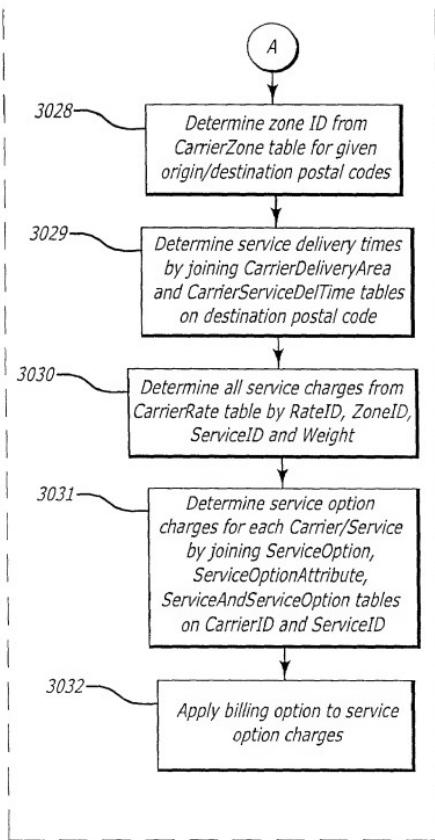


FIG. 36d

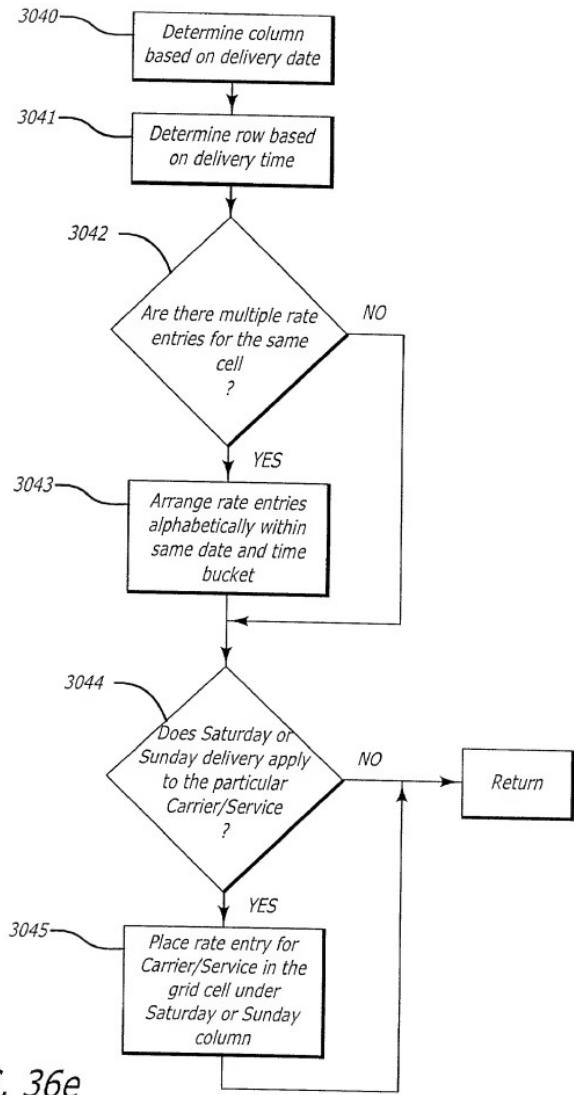


FIG. 36e

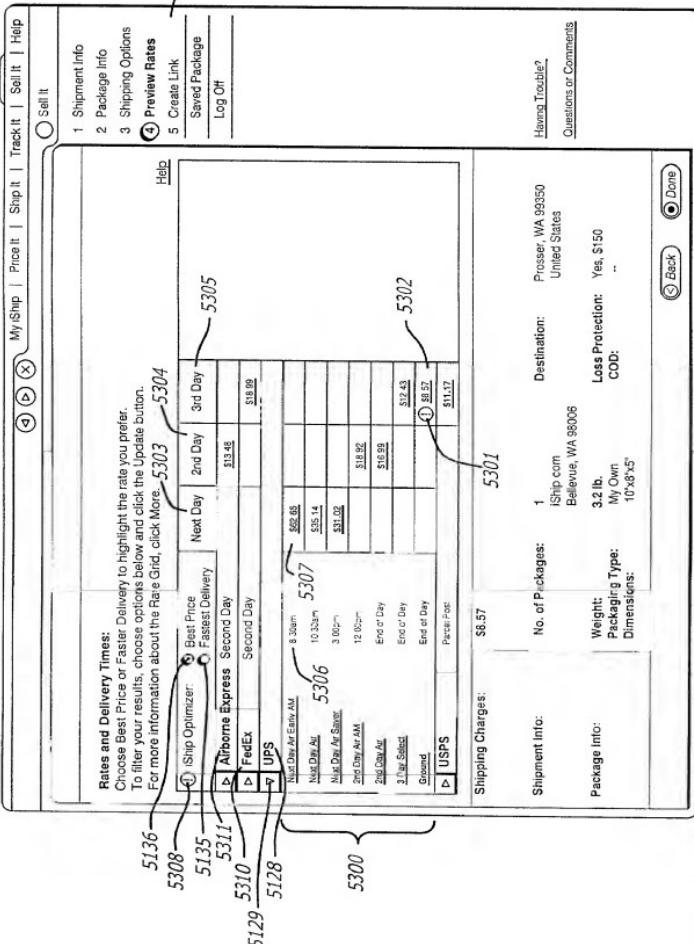


FIG. 36f

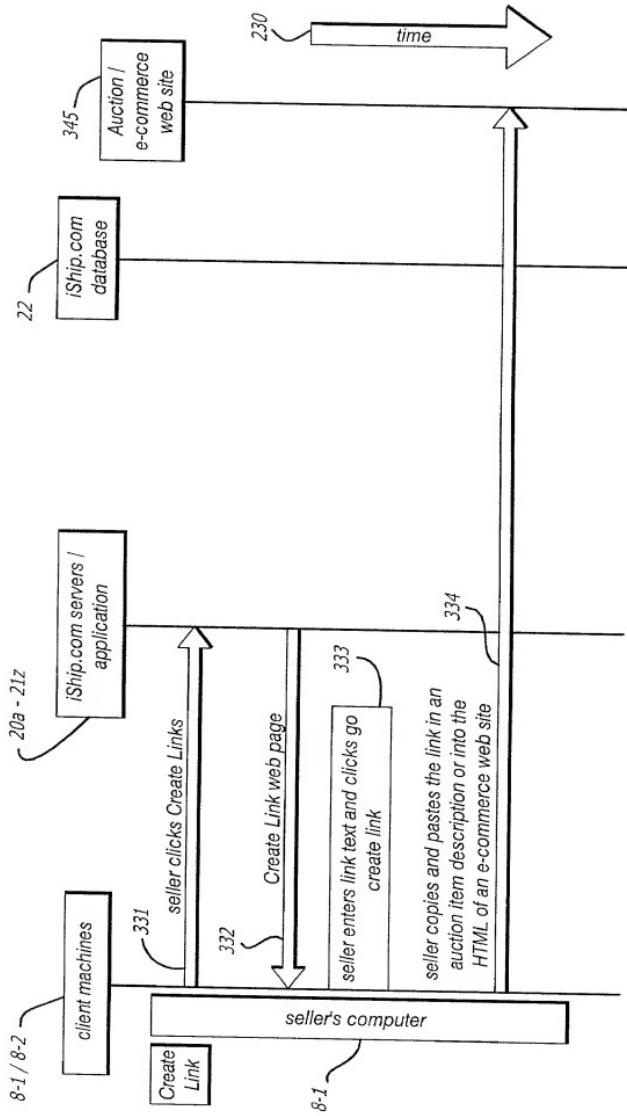
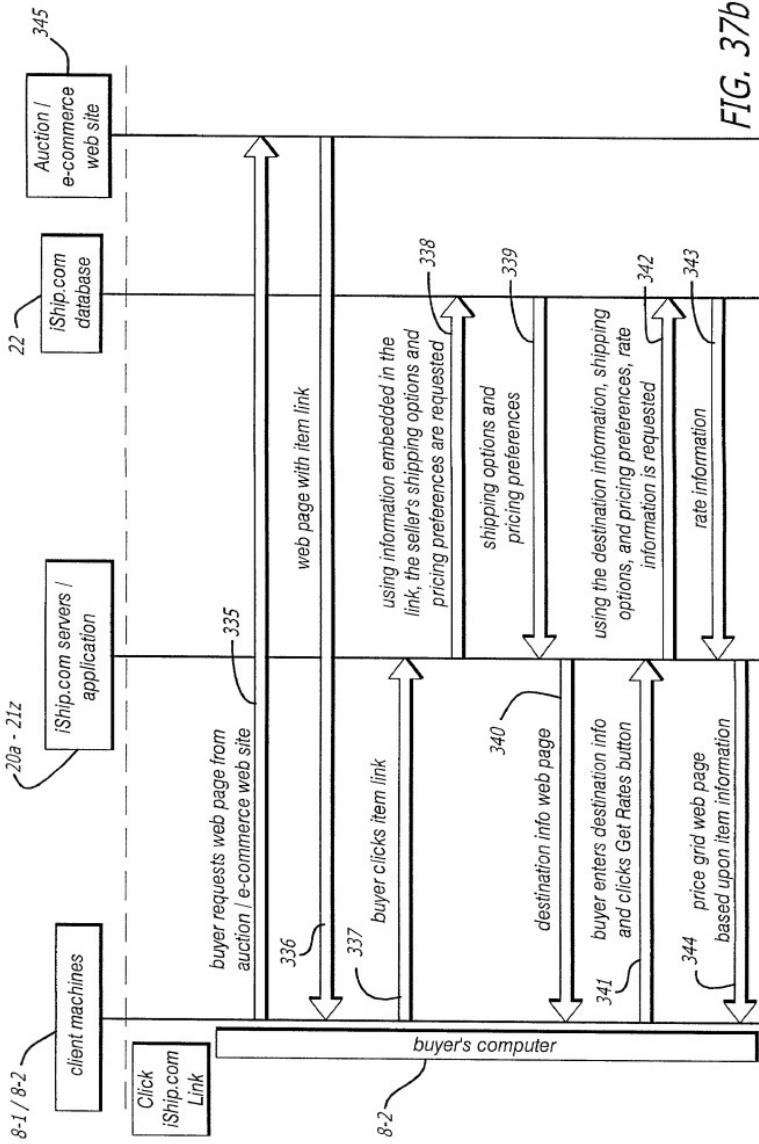


FIG. 37a



00000000000000000000000000000000

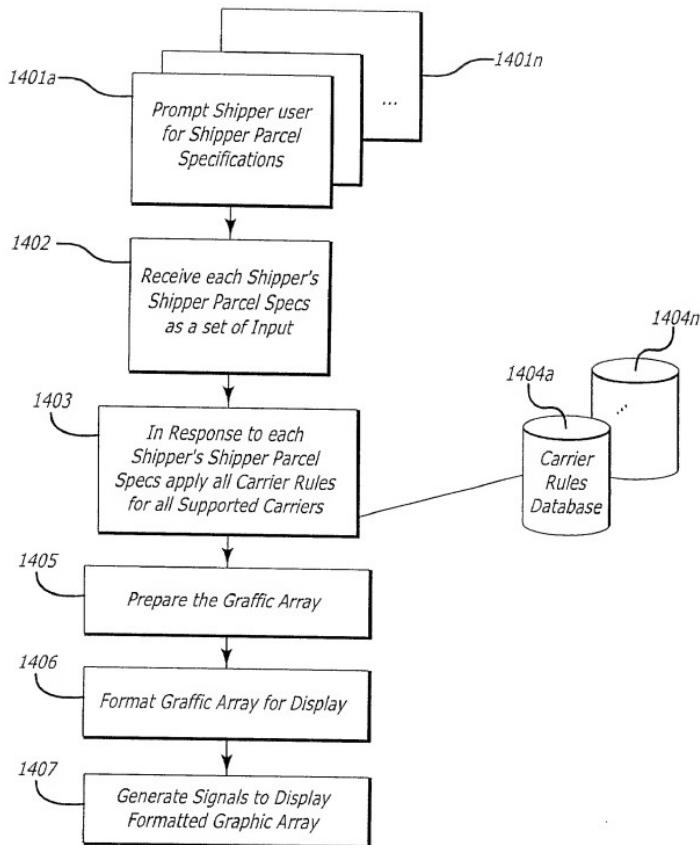


FIG. 38

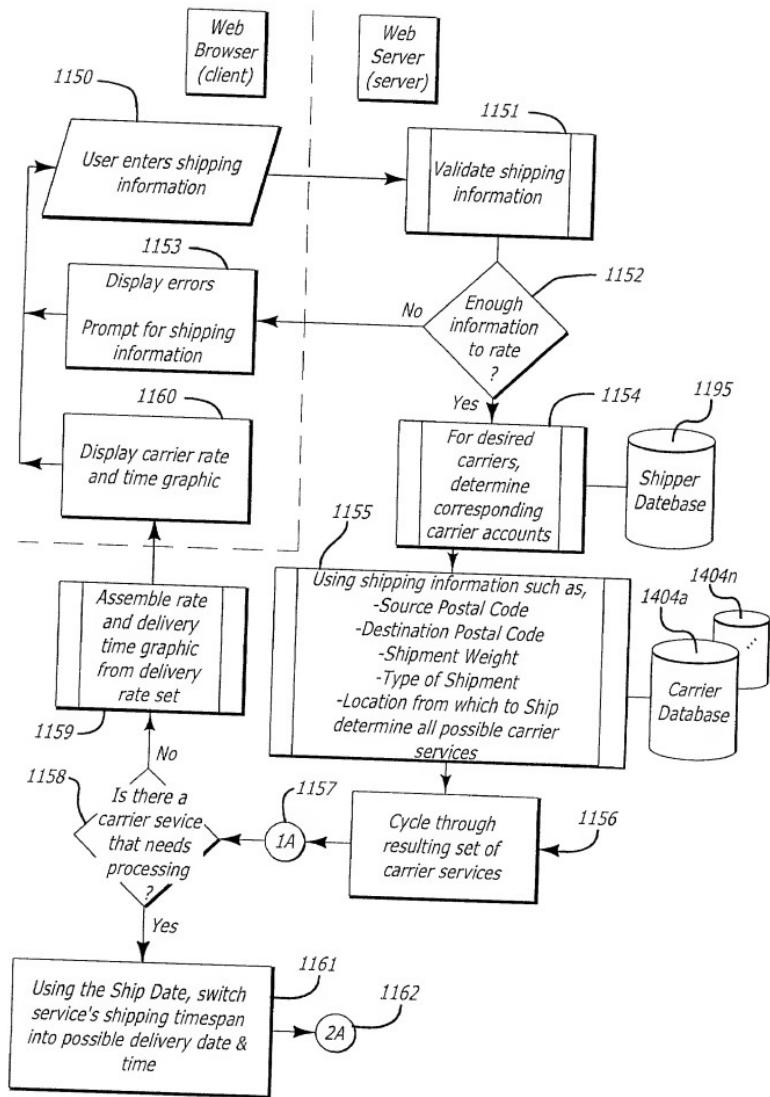


FIG. 39a

FIG. 39b

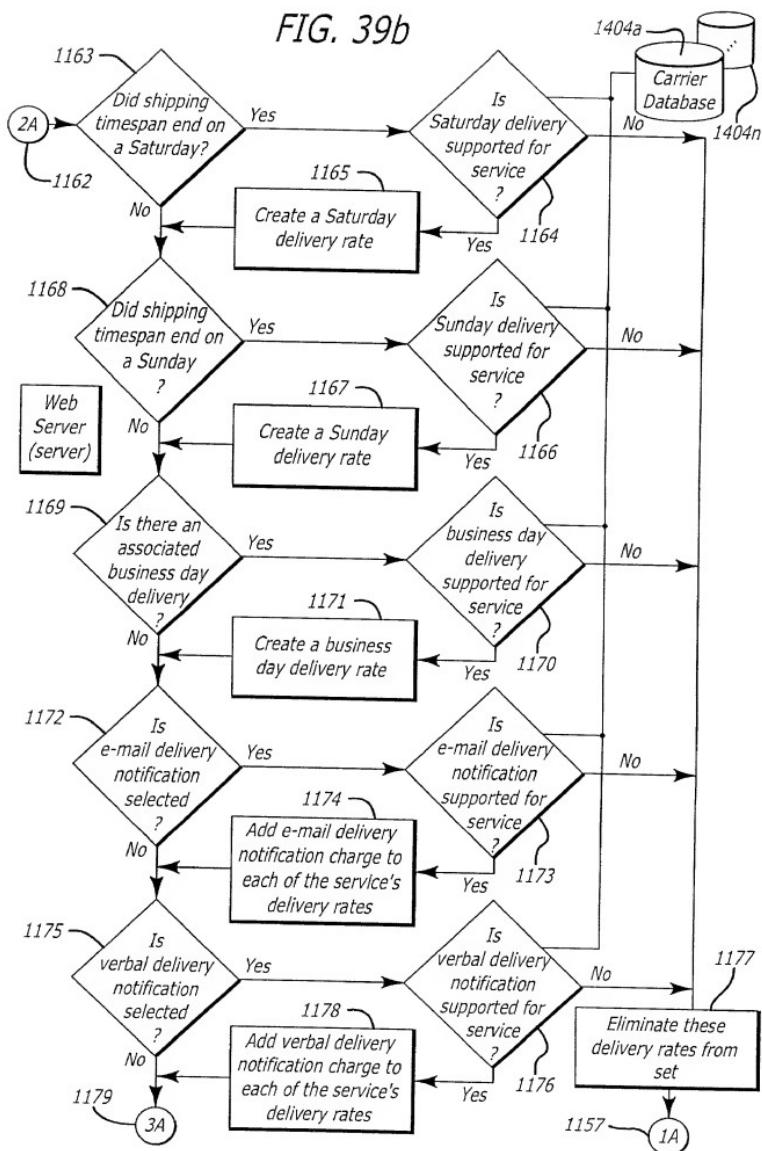
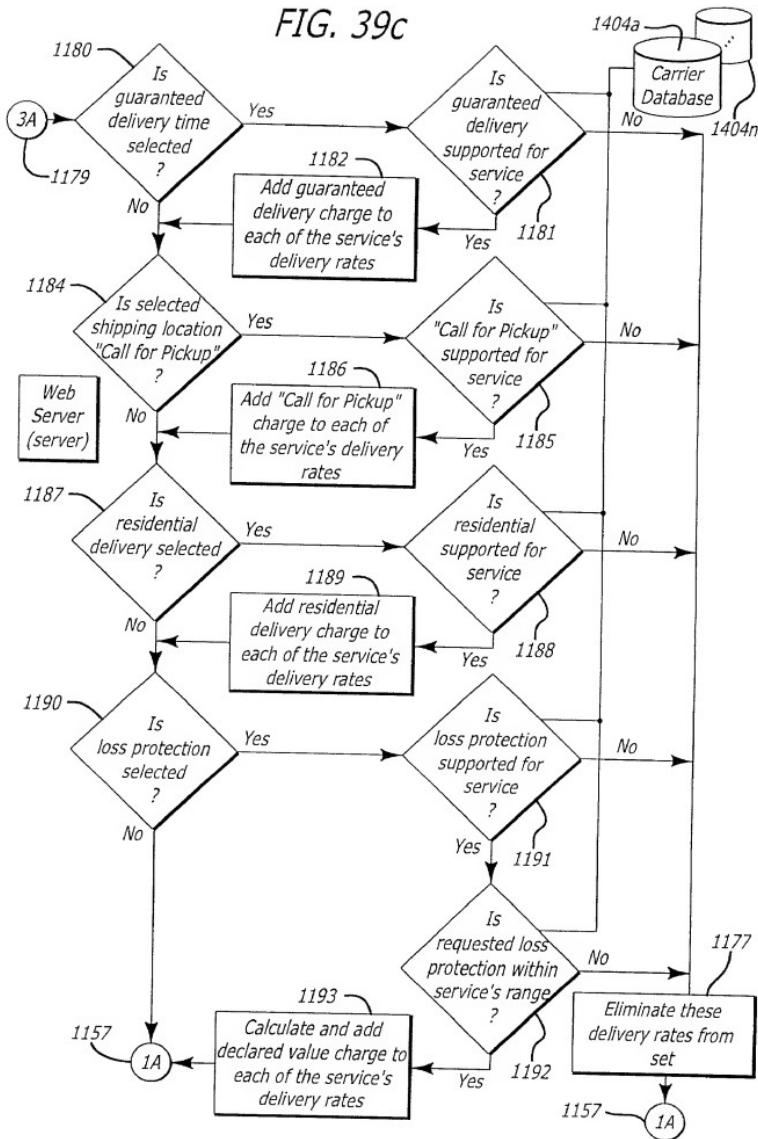


FIG. 39c



iShip.com

The Internet Package Shippers

RATES & DELIVERY TIMES
THE WHOLESALE PACKAGE SHIPPER

		THU		FRI		MON		WED		CARRIERS	
10:30 AM	\$52.25									<input checked="" type="checkbox"/> Airborne	
12:00 PM			\$28.35							<input checked="" type="checkbox"/> FedEx	
3:00 PM	\$40.10									<input checked="" type="checkbox"/> UPS	
5:00 PM			\$21.25			\$16.40		\$7.26		<input checked="" type="checkbox"/> USPS	
										USPS Priority Mail	

Enter your Zip Code and other options, then click Get Rates
The Zip Code where the item would be delivered is: 80302

- The delivery address for the item would be:
⑥ Business ⑦ Residence

I want the service to have a guaranteed delivery time:
⑧ Yes ⑨ No

[Click the "Back" on your browser to return to item page](#)

Shipping services and rates provided by [Shop.com](#), The Internet Package Shipper

卷之三

[Get Rates](#) [Help](#)

FIG. 40

XXXXXX.com - Your Favorite Browser

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit Address: <http://www.sureaddress.com>

Home	Sell It	Ship It	Track It	Help
----------------------	-------------------------	-------------------------	--------------------------	----------------------

[Buyer](#)

When you are ready to complete the sale with your Buyer, enter the Buyer's Name and E-Mail along with information about the item you are selling. When you have finished, iShip.com will send an e-mail to the Buyer and collect their Shipping Address, Service selection and Payment Method.

When the Buyer has provided the information you will be notified by e-mail and an entry will be placed in your Shipping Log.

Buyer Name:	351
E-Mail:	352
Order / Item # :	353
Description of Goods:	354a
Message to buyer:	354b
	355b
	355c

31b-1 My E-Commerce
 31b-2 Selling Preferences
 31b-3 Create Link
 31b-4 Request Buyer Info
 31b-5 Log Off

350

102 → 104 → 105

Request Buyer Info

Next >> Cancel Help

FIG. 41

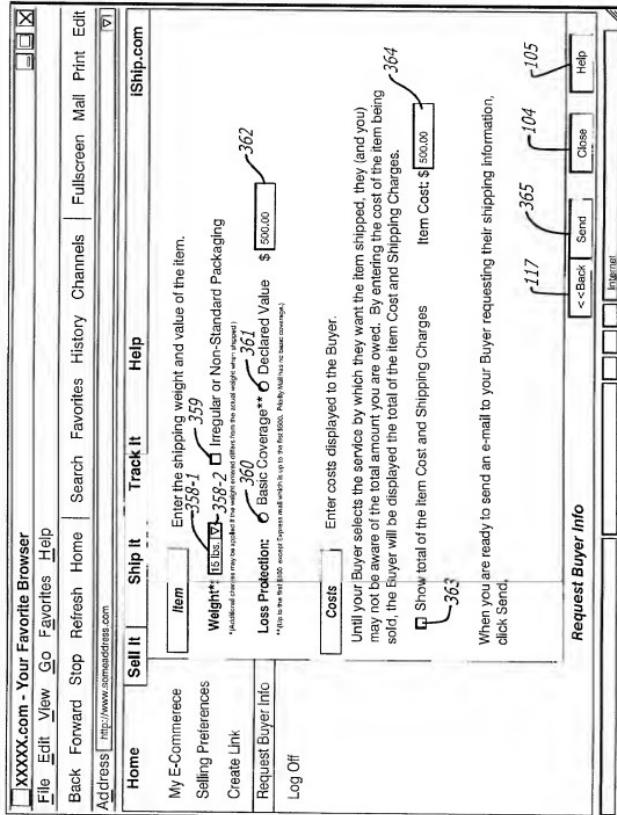


FIG. 42

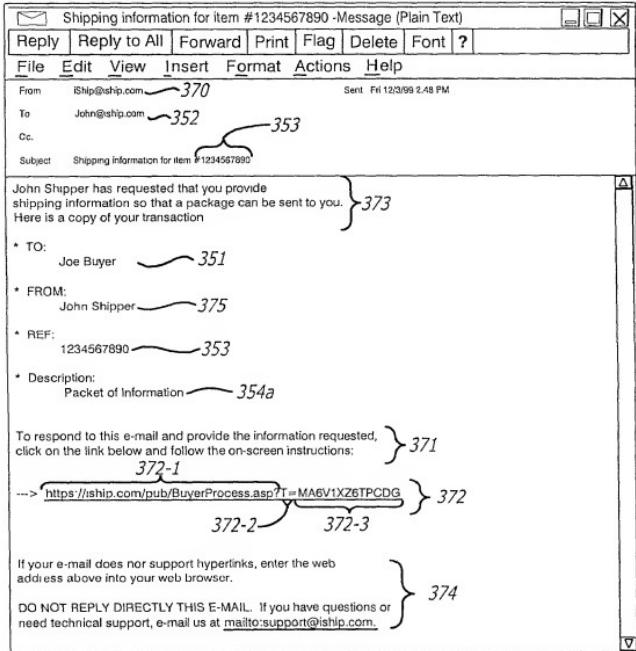


FIG. 43

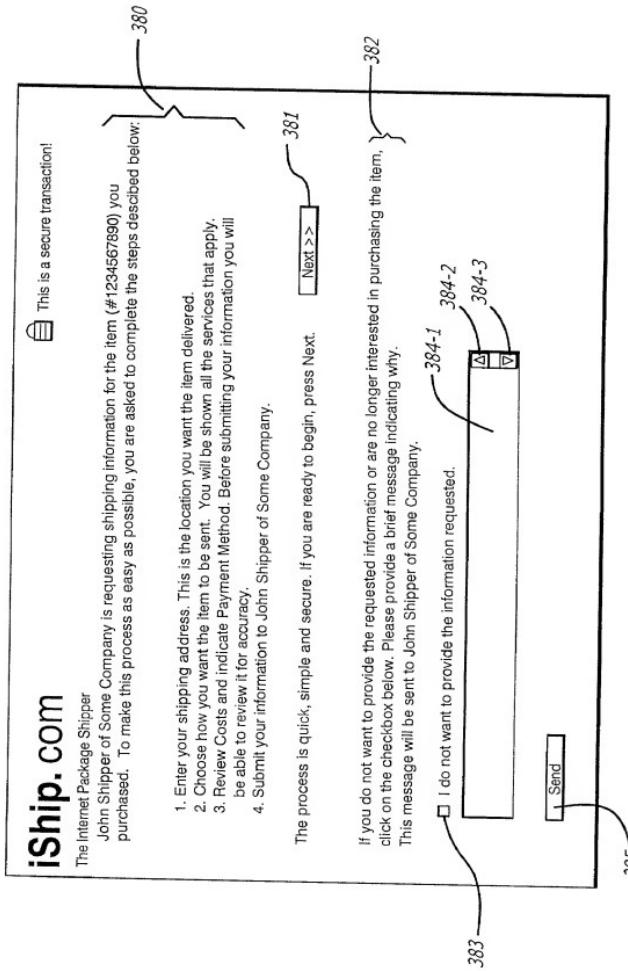


FIG. 44

This is a secure transaction!

iShip.com
The Internet Package Shipper

Enter your shipping address, then click Next.

Company/Name: 389
Attention: 391
Street: 392
Floor/Room: 393
Department: 394
City: 395
State: 397
Zip Code: 399
Fax: (888)888-8889

Telephone: (888)888-8888 398
 396-1
 396-2
 400

This address is a: Business Residence

<< Back Next >> Help

117 102 105

FIG. 45

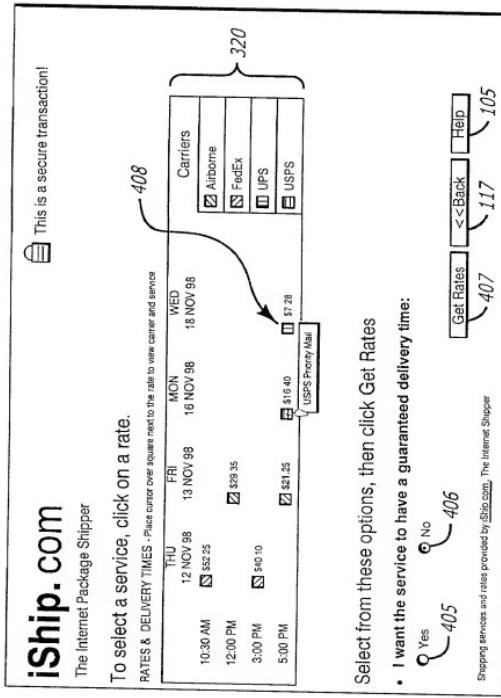


FIG. 46

This is a secure transaction!

iShip. com

The Internet Package Shipper

Verify the information and select Payment Method, then click Send.

Address	Some Company 1234 X Ave. Suite #567 Marketing Stateplace, WA 12345 Phone: (888)888-8888 Fax: (888)888-8889
Service	Carrier: UPS Service: Ground
Charges	The Shipping Charges are: \$ 7.28 The Item Cost is: \$ 500.00 The total amount you Owe is: \$ 507.26
Payment	Please select how you will pay for this item. Payment Method: <input checked="" type="checkbox"/> 413-1 <input type="checkbox"/> 413-2 Card No.: <input type="checkbox"/> 414 Expiration Date: <input type="checkbox"/> 415-1 <input checked="" type="checkbox"/> 415-2 <input type="checkbox"/> 416-1 If the cardholder Name and Billing Address are not the same as the Shipping Address entered, click Cardholder Information. <input type="checkbox"/> 415-2 <input checked="" type="checkbox"/> 416-1

<< Back Cardholder Information Send Help -417 418

Shipping services and rates provided by [Send.com](#). The Internet Shipper

FIG. 47

1110

Summary	
Origin Zip:	98005
Destination Zip:	80302
Est Weight	5 lbs
Service	FedEx Priority Overnight
Service Options	Declared Value \$750.00 E-Mail Notification Signature not required Service must be guaranteed Verbal Notification
Package will be shipped from: Any Company 2515 140th Ave. NE Suite E110 Any Town, WA 98005	
Charges	
Base Service Charger	\$57.50
Declared Value	\$6.00
Verbal Notification	\$7.50
E-Mail Notification	\$0.25
Total Charge	\$71.25

If you would like to ship this package, press "Next"

1111

102

Compare Services <<Back | Next>> | Reset | Cancel | Help

FIG. 48

iShip.com

The Internet Package Shipper

Enter the Cardholder information, then click Next.

- Enter the Name as it appears on the card.
Name:
- Enter the billing information as it appears on your card statement.

Street:
State: Zip Code:

Save Help

424

FIG. 49

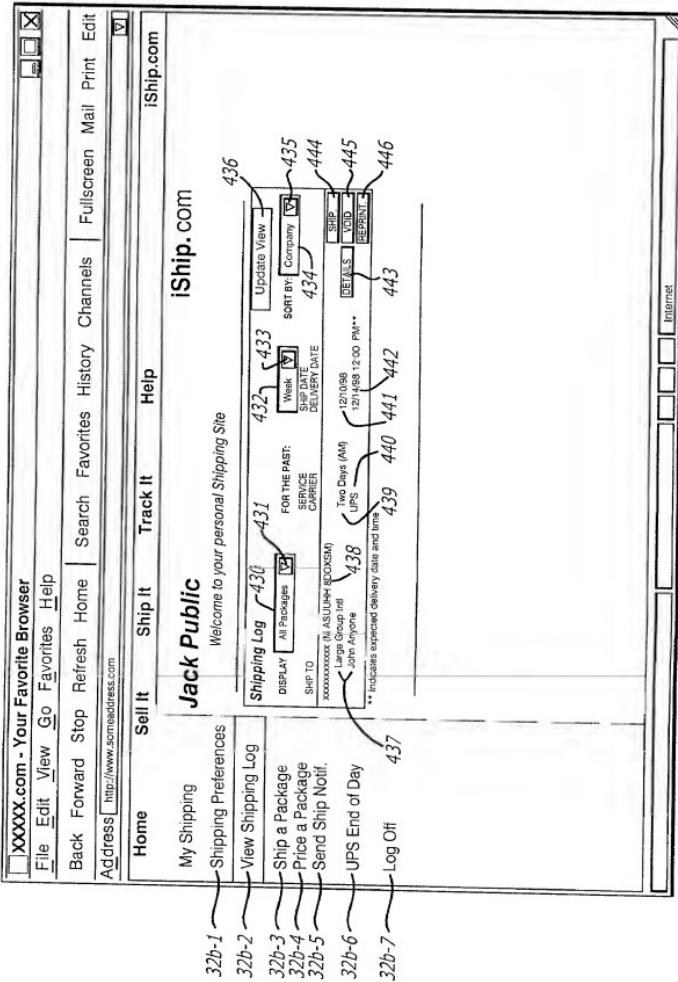


FIG. 50

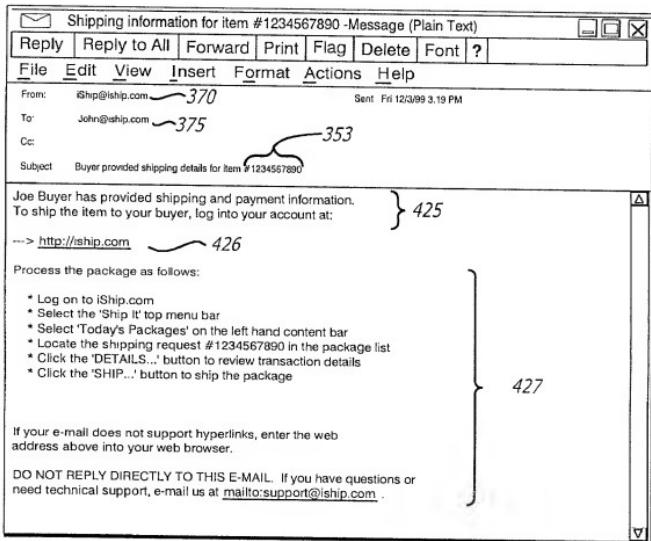


FIG. 51

Package Confirm that this is the correct package before continuing.

Recipient: Mary Jones Some Company 28 Your St. SW Any Town, IL 60600	Est. Weight: 5 lbs Packaging: Other L 25.5 in W 25.5 in H 25.5 in Service: FedEx Priority Overnight Service Options: Declared Value \$ 750.00 • Mail • Signature not required • Service must be guaranteed • Verbal Notification	Billed Weight: 5 lbs. FedEx Priority Overnight Declared Value \$ 750.00 Mail Signature not required Service must be guaranteed Verbal Notification
--	---	--

View Details

451

If the package above is the package you want to void, press the "Void Package" button

452

VOID PACKAGE

Void Package **Cancel** **Help**

FIG. 52

Package Confirm that this is the correct package before continuing.

Recipient: Mary Jones Some Company 28 Your St. SW Any Town, IL 60600	Est. Weight: 5 lbs. Packaging: Other L 25.5 in W 25.5 in H 25.5 in Service: FedEx Priority Overnight Service Options: Declared Value \$ 750.00 • Mail • Signature not required • Service must be guaranteed • Verbal Notification	Billed Weight: 5 lbs FedEx Priority Overnight Declared Value \$ 750.00 Mail Signature not required Service must be guaranteed Verbal Notification
--	--	---

View Details

451

To Reprint your shipping label:

1. Make sure your printer is running, has paper and is setup to print in "Portrait" mode.
2. Press the "Generate Label" button below.
3. Using your browser's "Print" command, print the shipping label

455

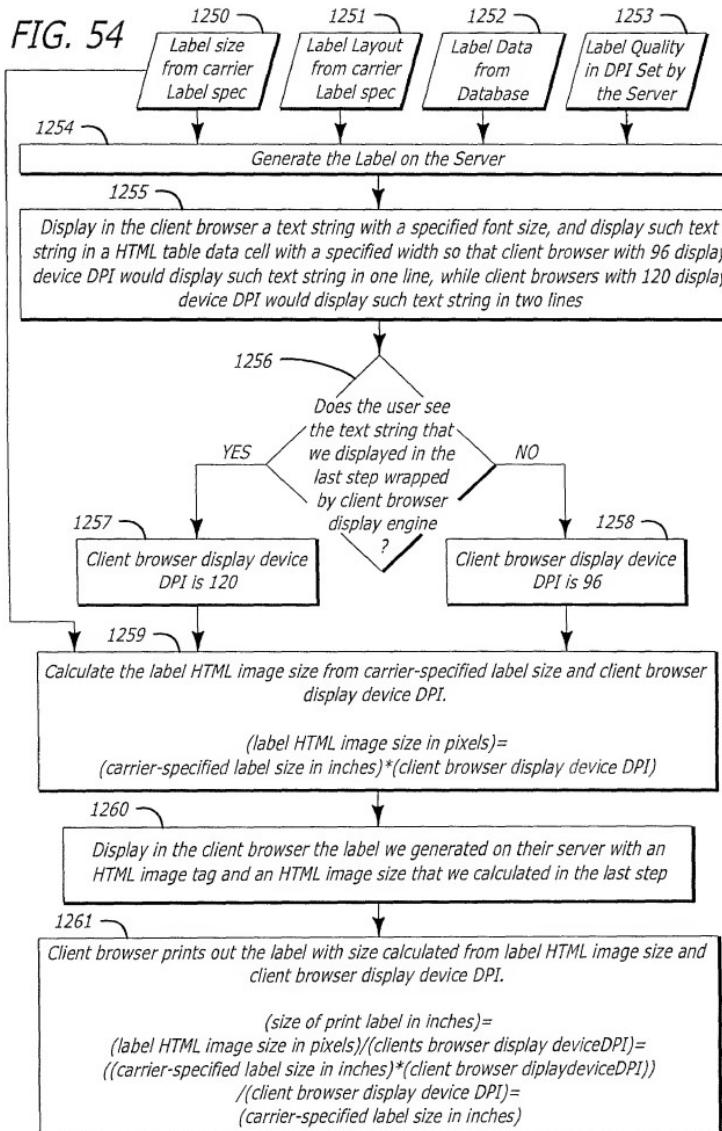
Reprint Label

Generate Label **Cancel** **Help**

454

FIG. 53

FIG. 54



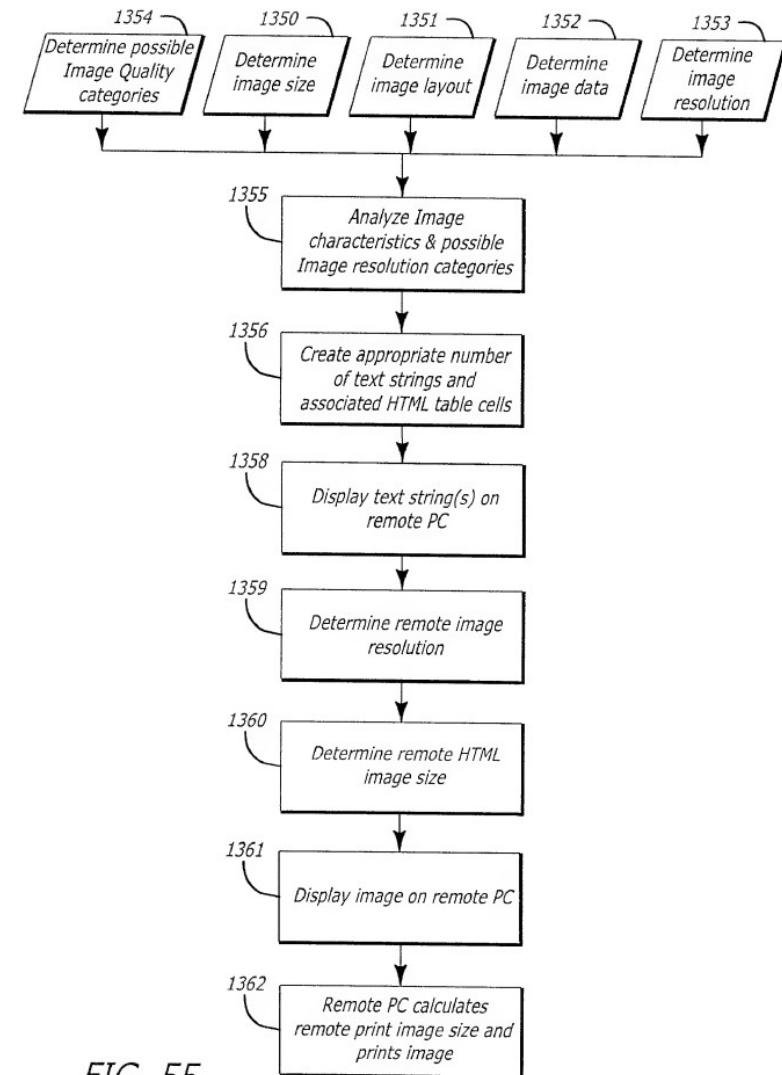


FIG. 55

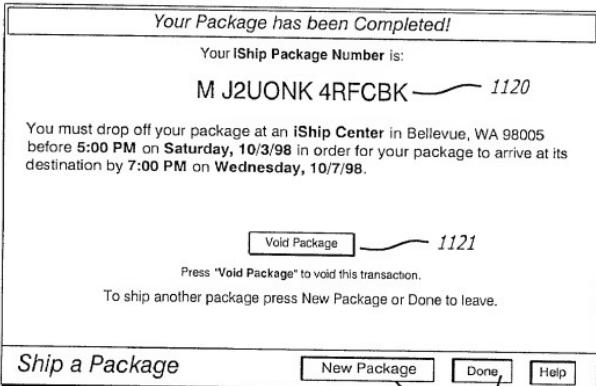


FIG. 56

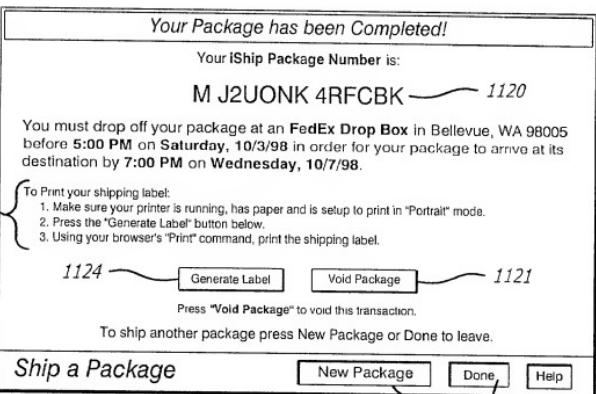


FIG. 57

卷之三

1132

SHIPPING LABEL PRINTING INSTRUCTIONS

1. Click the Print Label button or use the "Print" command in your browser to print your label.

Print Label
 2. Fold or cut the printed page along the line you see above.
 3. Place the label in the transparent pouch and affix to your package so that the entire label is visible.

parent pouch

-1133

Demos

1134

FIG. 58

xxxxx.com - Your Favorite Browser

File Edit View Go Favorites Help

Back Forward Stop Refresh Home

Search Favorites History Channels Fullscreen Mail Print Edit

Address <http://www.sameaddress.com>

Home **Sell It** **Ship It** **Track It** **Help** **iShip.com**

Notify Complete the fields below to notify your Buyer when the item is shipped.

To send a Ship Notification e-mail, complete the required fields and press Send.
You can include a brief message with the Notification.

Name: <input type="text"/>	E-Mail: <input type="text"/>
I will ship my package on: <input type="text"/>	12/9/99 : Today <input checked="" type="checkbox"/>
I am shipping my package with: <input type="text"/>	Airborne Express <input checked="" type="checkbox"/>
The service is: <input type="text"/>	Oversight Air Express <input checked="" type="checkbox"/>
The tracking number is: <input type="text"/>	
Order/Item #: <input type="text"/>	123412341234 <input checked="" type="checkbox"/>
Reference #: <input type="text"/>	234523452345 <input checked="" type="checkbox"/>
Message: <input type="text"/>	

Send Ship Notification Internet

FIG. 59

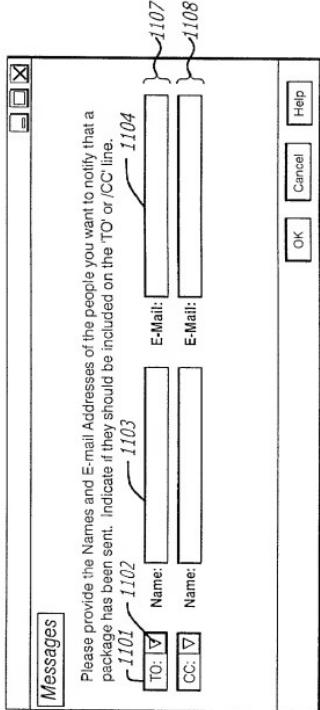


FIG. 60

FIG. 61

XXXXX.com - Your Favorite Browser																																																			
<input type="checkbox"/> File <input type="checkbox"/> Edit <input type="checkbox"/> View <input type="checkbox"/> Go <input type="checkbox"/> Favorites <input type="checkbox"/> Help																																																			
<input type="checkbox"/> Back <input type="checkbox"/> Forward <input type="checkbox"/> Stop <input type="checkbox"/> Refresh <input type="checkbox"/> Home																																																			
<input type="checkbox"/> Search <input type="checkbox"/> Favorites <input type="checkbox"/> History <input type="checkbox"/> Channels																																																			
<input type="checkbox"/> Fullscreen <input type="checkbox"/> Mail <input type="checkbox"/> Print <input type="checkbox"/> Edit																																																			
<input type="checkbox"/> Address: http://www.sumreadaddress.com																																																			
<table border="1"> <tr> <td><input type="checkbox"/> Home</td> <td><input type="checkbox"/> Sell It</td> <td><input type="checkbox"/> Ship It</td> <td><input type="checkbox"/> Track It</td> <td><input type="checkbox"/> Help</td> <td><input type="checkbox"/> Payment</td> <td><input type="checkbox"/> Summary</td> <td><input type="checkbox"/> iShip.com</td> </tr> <tr> <td colspan="8"> My Shipping Est. Weight: 5.00 lbs., Blown weight: 5.00 lbs. Pricing: Other 1.5 in. W x H 15 in Service: UPS and Day Air A.M. Service Options: Domestic Return Address: Reference #1: ABCDEFGH Description of Goods: Master Card 4444 4444 4444 4444 Exp. Date: Oct 1998 </td> </tr> <tr> <td colspan="8"> Shipping Preferences View Shipping Log </td> </tr> <tr> <td colspan="8"> Ship a Package Price a Package Send Ship Notif. UPS End of Day </td> </tr> <tr> <td colspan="8"> Log Off </td> </tr> </table>												<input type="checkbox"/> Home	<input type="checkbox"/> Sell It	<input type="checkbox"/> Ship It	<input type="checkbox"/> Track It	<input type="checkbox"/> Help	<input type="checkbox"/> Payment	<input type="checkbox"/> Summary	<input type="checkbox"/> iShip.com	My Shipping Est. Weight: 5.00 lbs., Blown weight: 5.00 lbs. Pricing: Other 1.5 in. W x H 15 in Service: UPS and Day Air A.M. Service Options: Domestic Return Address: Reference #1: ABCDEFGH Description of Goods: Master Card 4444 4444 4444 4444 Exp. Date: Oct 1998								Shipping Preferences View Shipping Log								Ship a Package Price a Package Send Ship Notif. UPS End of Day								Log Off							
<input type="checkbox"/> Home	<input type="checkbox"/> Sell It	<input type="checkbox"/> Ship It	<input type="checkbox"/> Track It	<input type="checkbox"/> Help	<input type="checkbox"/> Payment	<input type="checkbox"/> Summary	<input type="checkbox"/> iShip.com																																												
My Shipping Est. Weight: 5.00 lbs., Blown weight: 5.00 lbs. Pricing: Other 1.5 in. W x H 15 in Service: UPS and Day Air A.M. Service Options: Domestic Return Address: Reference #1: ABCDEFGH Description of Goods: Master Card 4444 4444 4444 4444 Exp. Date: Oct 1998																																																			
Shipping Preferences View Shipping Log																																																			
Ship a Package Price a Package Send Ship Notif. UPS End of Day																																																			
Log Off																																																			
<table border="1"> <tr> <td colspan="2"> <input type="checkbox"/> Return Address: Receiver: David Seider Company 2 2615 14th Ave NE Suite E110 Operations Sammamish, WA 98005 (509) 822-5028 dseider@domain.com </td> <td colspan="2"> <input type="checkbox"/> Base Service Charge: \$ 17.00 <input type="checkbox"/> Service Options: \$ 1.65 </td> </tr> <tr> <td colspan="2"> <input type="checkbox"/> Reference#: 234567890 Rec'd: 5/22/99 Ref ID: 234567890 Carrier: UPS Rate: \$ 2.00 Bill-to: 13th Street NW (\$55. 555-4345) </td> <td colspan="2"> <input type="checkbox"/> Total Charge: \$ 18.65 <input type="checkbox"/> Additional Charges: \$ 3.25 </td> </tr> <tr> <td colspan="2"> <input type="checkbox"/> Buyer's Total: \$ 21.90 <input type="checkbox"/> Buyer's Quote: \$ 21.45 </td> <td colspan="2"> <input type="checkbox"/> < < Back <input type="checkbox"/> Finish <input type="checkbox"/> Cancel <input type="checkbox"/> Help </td> </tr> <tr> <td colspan="12"> By shipping your package with Ship.com you agree to all Terms of Service specified by Ship.com or the selected carrier on any applicable waybill, tariff or service guide </td> </tr> </table>												<input type="checkbox"/> Return Address: Receiver: David Seider Company 2 2615 14th Ave NE Suite E110 Operations Sammamish, WA 98005 (509) 822-5028 dseider@domain.com		<input type="checkbox"/> Base Service Charge: \$ 17.00 <input type="checkbox"/> Service Options: \$ 1.65		<input type="checkbox"/> Reference#: 234567890 Rec'd: 5/22/99 Ref ID: 234567890 Carrier: UPS Rate: \$ 2.00 Bill-to: 13th Street NW (\$55. 555-4345)		<input type="checkbox"/> Total Charge: \$ 18.65 <input type="checkbox"/> Additional Charges: \$ 3.25		<input type="checkbox"/> Buyer's Total: \$ 21.90 <input type="checkbox"/> Buyer's Quote: \$ 21.45		<input type="checkbox"/> < < Back <input type="checkbox"/> Finish <input type="checkbox"/> Cancel <input type="checkbox"/> Help		By shipping your package with Ship.com you agree to all Terms of Service specified by Ship.com or the selected carrier on any applicable waybill, tariff or service guide																											
<input type="checkbox"/> Return Address: Receiver: David Seider Company 2 2615 14th Ave NE Suite E110 Operations Sammamish, WA 98005 (509) 822-5028 dseider@domain.com		<input type="checkbox"/> Base Service Charge: \$ 17.00 <input type="checkbox"/> Service Options: \$ 1.65																																																	
<input type="checkbox"/> Reference#: 234567890 Rec'd: 5/22/99 Ref ID: 234567890 Carrier: UPS Rate: \$ 2.00 Bill-to: 13th Street NW (\$55. 555-4345)		<input type="checkbox"/> Total Charge: \$ 18.65 <input type="checkbox"/> Additional Charges: \$ 3.25																																																	
<input type="checkbox"/> Buyer's Total: \$ 21.90 <input type="checkbox"/> Buyer's Quote: \$ 21.45		<input type="checkbox"/> < < Back <input type="checkbox"/> Finish <input type="checkbox"/> Cancel <input type="checkbox"/> Help																																																	
By shipping your package with Ship.com you agree to all Terms of Service specified by Ship.com or the selected carrier on any applicable waybill, tariff or service guide																																																			

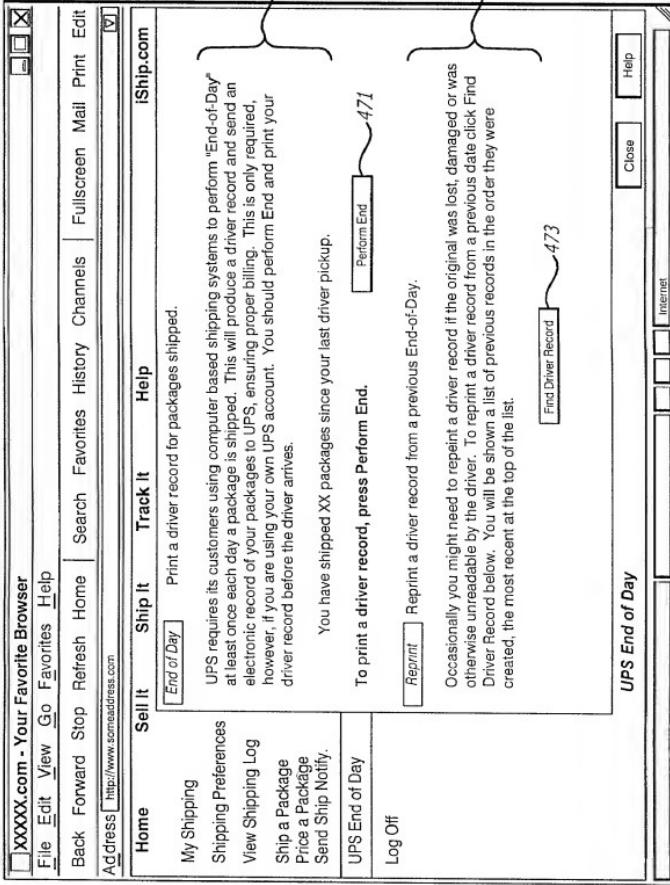


FIG. 62

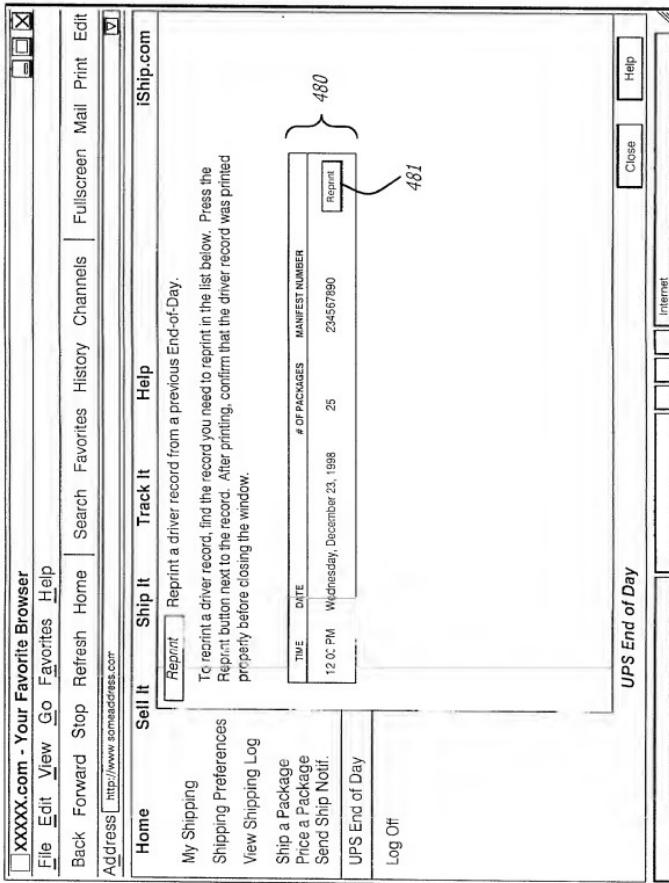


FIG. 63

FIG. 64a-1

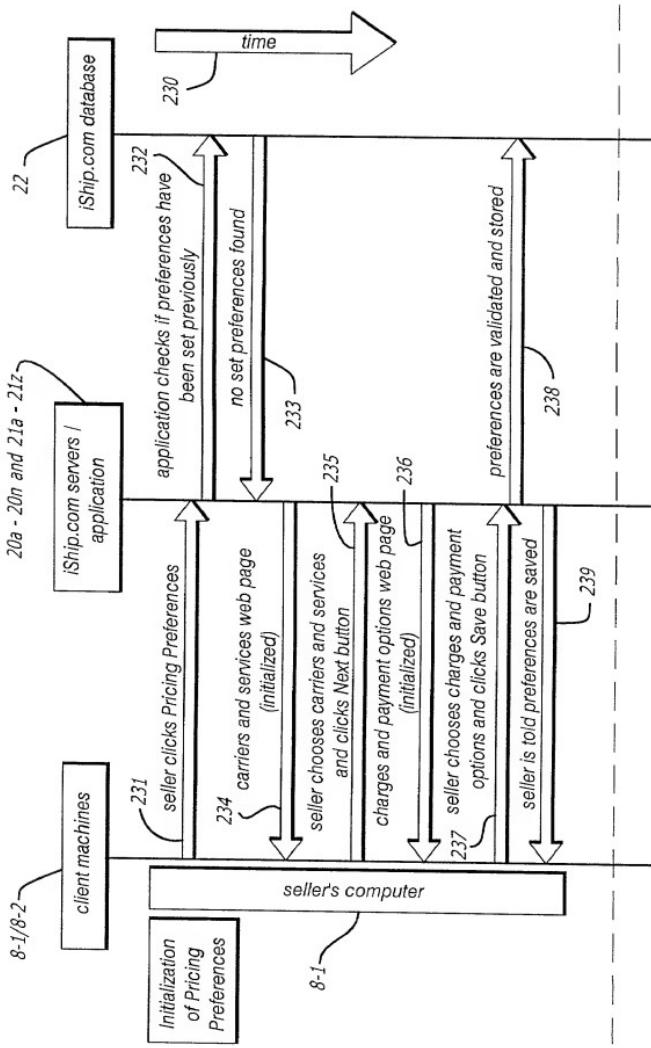
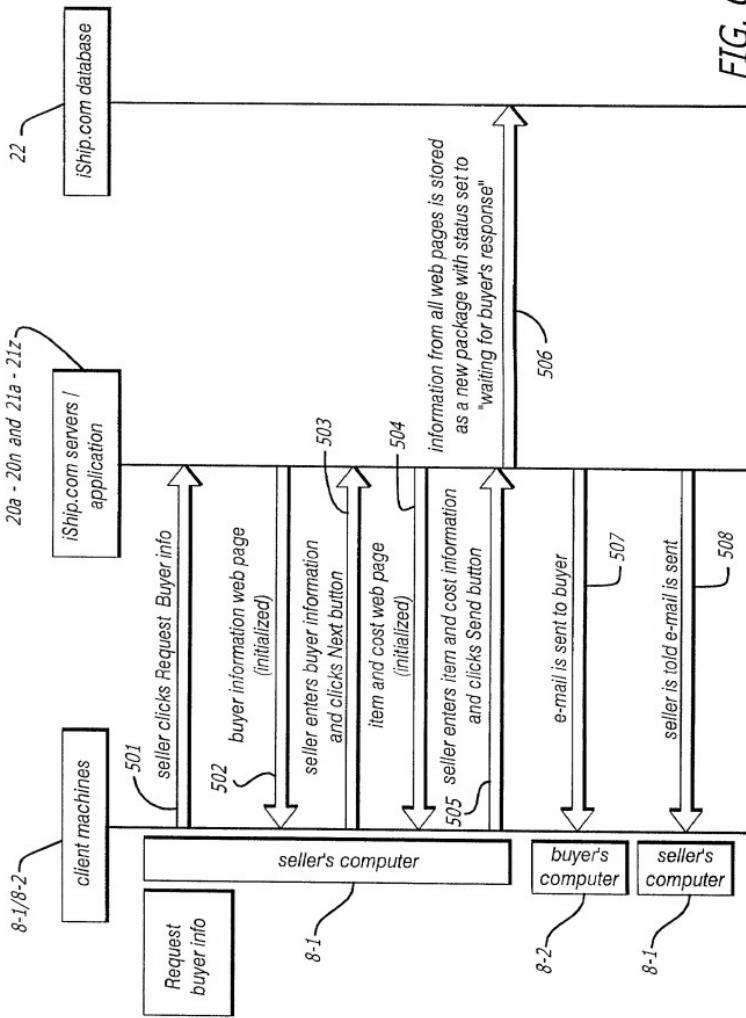


FIG. 64a-2



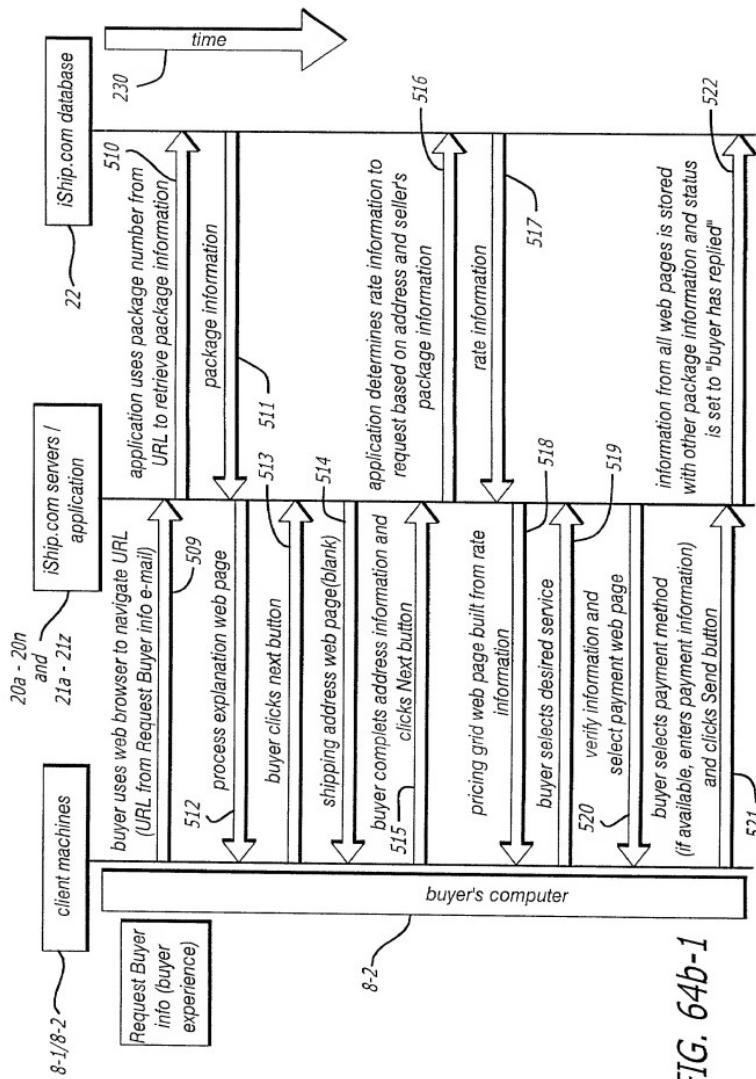


FIG. 64b-1

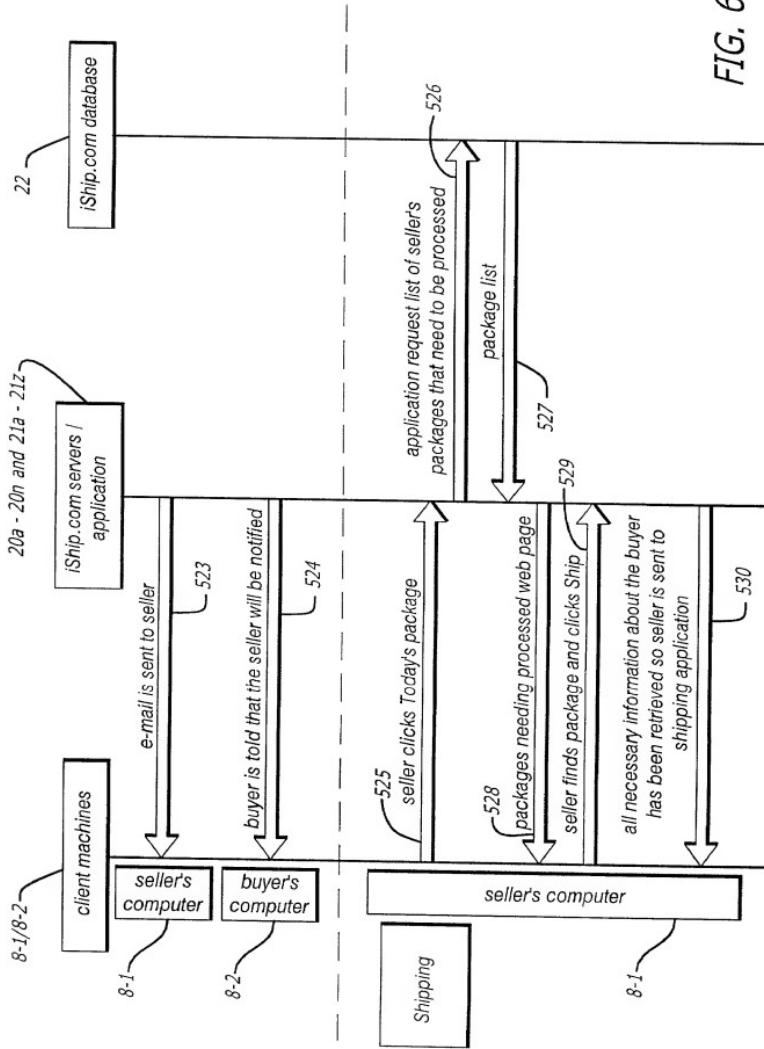


FIG. 64b-2

FIG. 65a

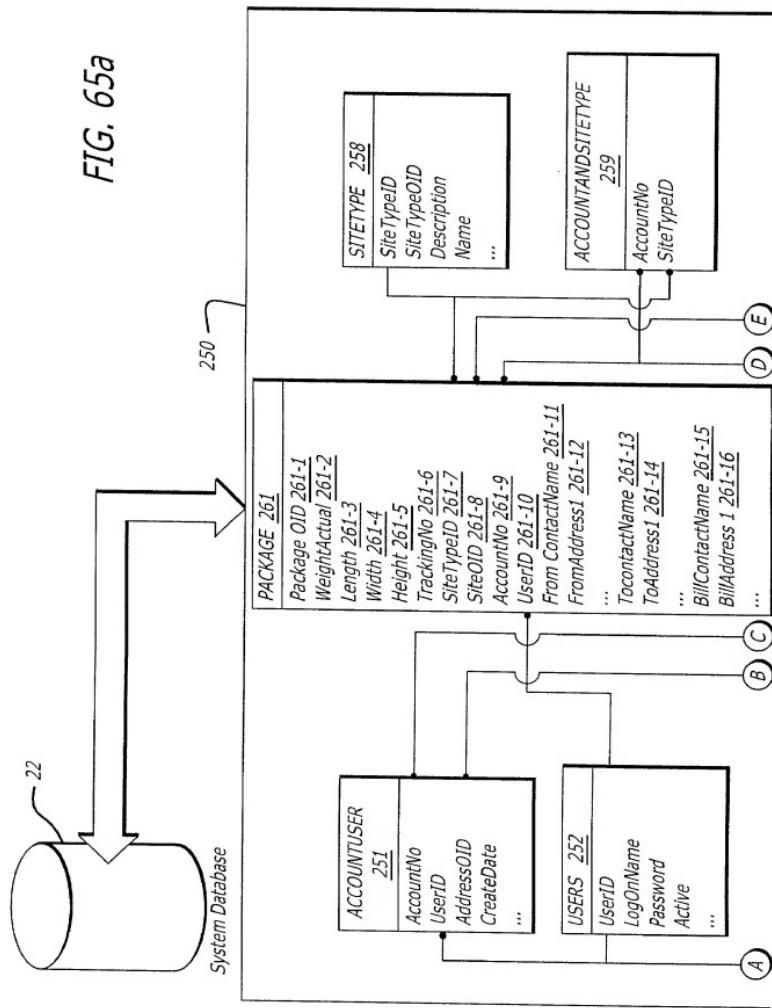
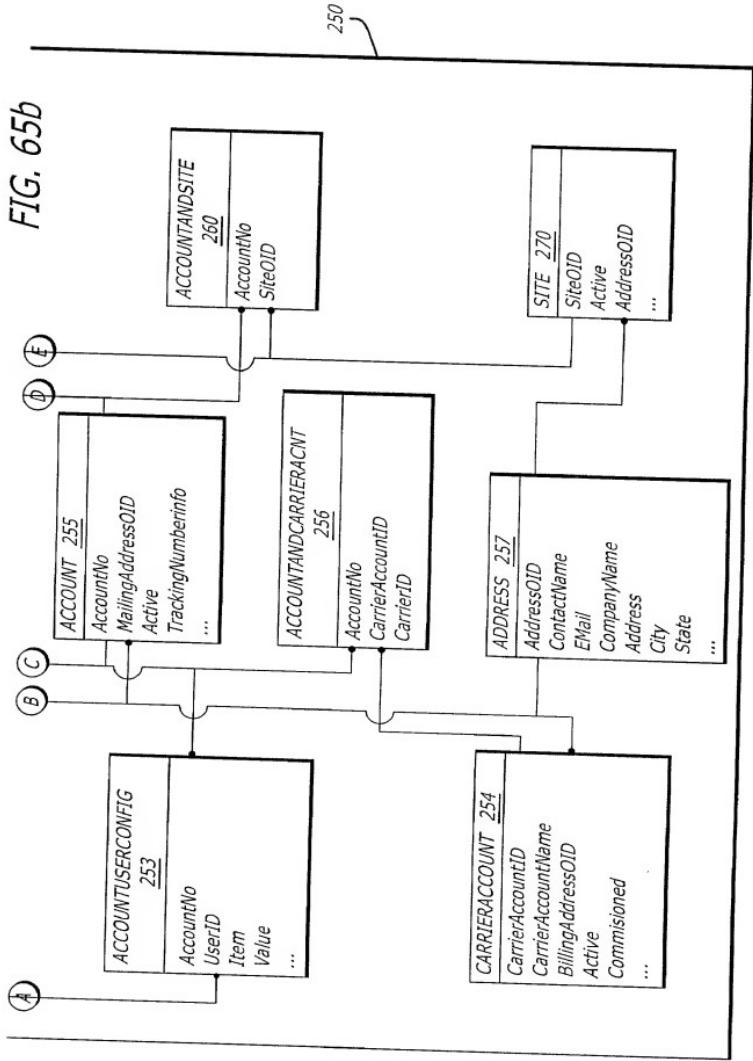


FIG. 65b



```
<iShip.com.request xmlns="x-schema:http://iShip.com/api/schema/trackrequest.xml"
transactionid="3855BD2185E111d3984400A0C9D6C226">
<header mode="interactive">
    <version major="0" minor="1"/>
    <batch id="AE5E54F08E2311d3984400A0C9D6C226"
        url="http://shasta/api/track/trackresponse.asp" email="bob@iShip.com"/>
</header>
<signon sessionid="" userid="test" password="77777777"/>
<trackit>
    <package sequencenumber="1">
        <trackingnumber carrier="ups">
            1Z1812530202075466
        </trackingnumber>
    </package>
</trackit>
<logoff/>
</iShip.com.request>
```

FIG. 66

```
<iShip.com.response transactionid="3855BD2185E111d3984400A0C9D6C226">
<status ishiprcode="0" signonrcode="0" trackitrcode="0" parsercode="0"
systemrcode="0"/>
<trackit>
    <package sequencenumber="1" packagercode="0">
        <deliveredto></deliveredto>
        <deliverylocation>LEFT AT 3S</deliverylocation>
        <signedby>HOWARD</signedby>
        <lastscan>9/1/99 1:50:00 PM DELIVERY</lastscan>
        <status>Delivered</status>
        <deliverytime>9/1/99 1:50:00 PM</deliverytime>
        <carrier>UPS</carrier>
        <service>2ND DAY AIR</service>
        <shipdate>8/28/99</shipdate>
        <trackingnumber>1Z1812530202075466</trackingnumber>
        <scanlocation>FORT HAMILTON, NY US</scanlocation>
        <weight>400</weight>
    </package>
</trackit>
</iShip.com.response>
```

FIG. 67

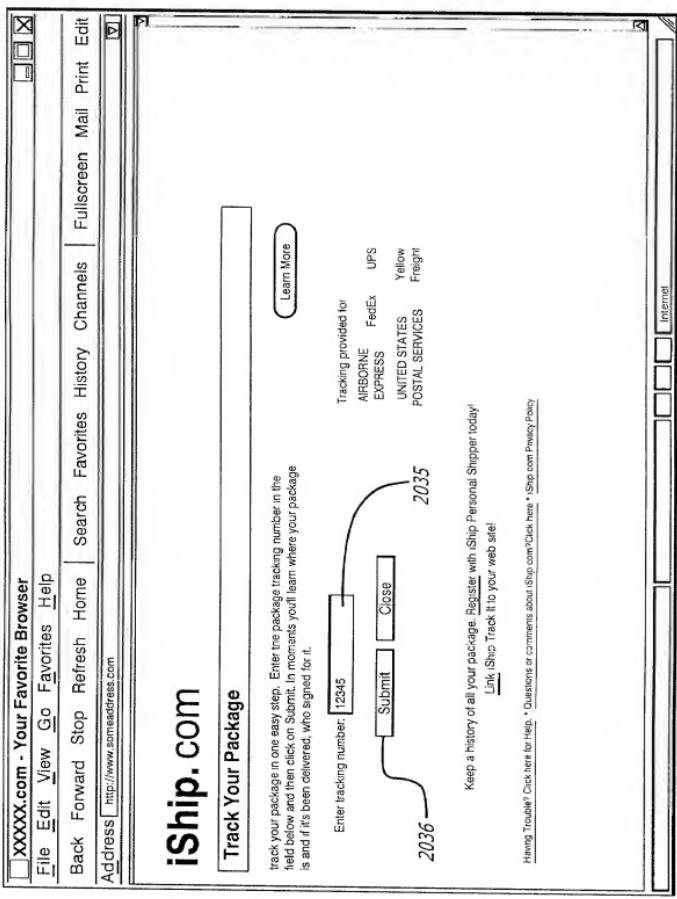
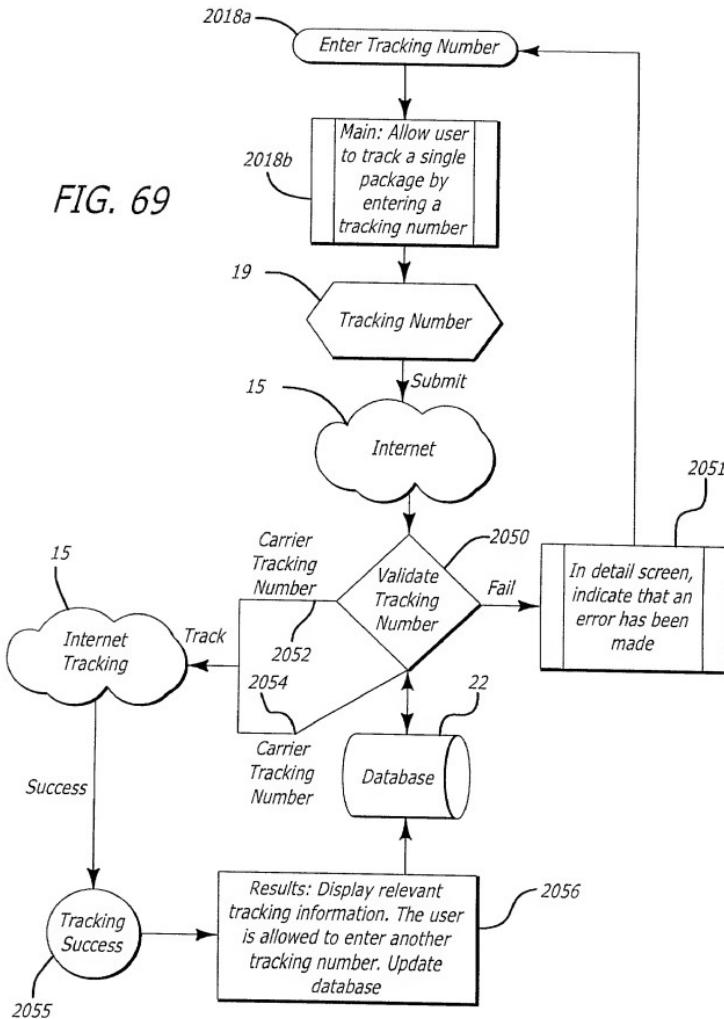


FIG. 68

FIG. 69



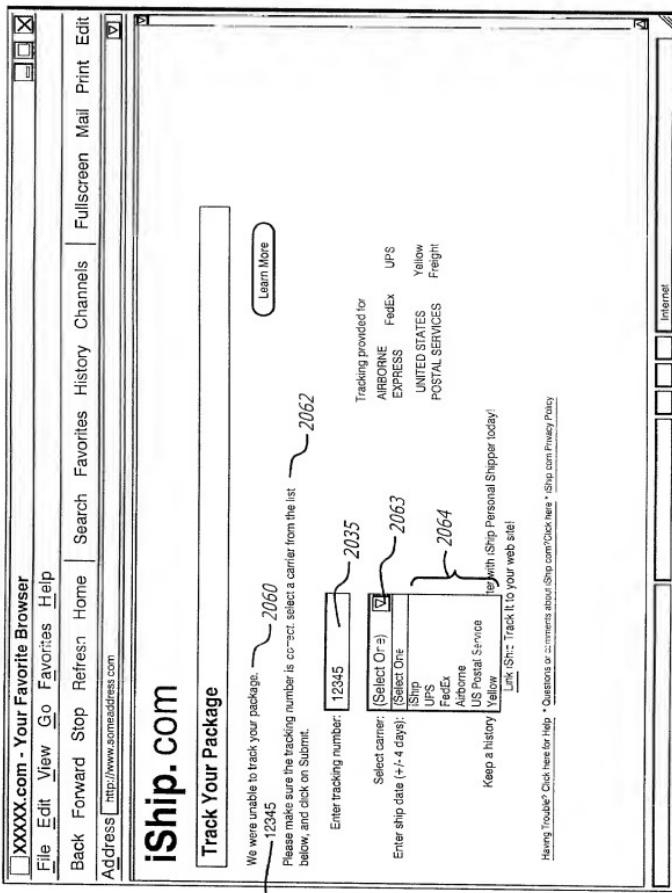


FIG. 70

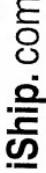
<input type="checkbox"/> XXXXX.com - Your Favorite Browser																													
File Edit View Go Favorites Help																													
Back Forward Stop Refresh Home	Search Favorites History Channels																												
Fullscreen Mail Print Edit																													
Address <input type="text" value="http://www.cnniedaddress.com"/>																													
																													
<h3>Your Tracking information</h3>																													
<table border="1"> <tr> <td>DELIVERED</td> <td><u>2071</u></td> </tr> <tr> <td>6/11/99 8:300 AM</td> <td>DELIVERY</td> </tr> <tr> <td>SOMEPLACE, WA US</td> <td>2072</td> </tr> <tr> <td>ANOTHERPLACE, WA US</td> <td>2073</td> </tr> <tr> <td>Friday, June 11, 1999</td> <td>2074</td> </tr> <tr> <td>8:300 AM</td> <td>2075</td> </tr> <tr> <td>RECEIVER</td> <td>2076</td> </tr> <tr> <td>CHRIS</td> <td>2077</td> </tr> <tr> <td>UPS</td> <td>2078</td> </tr> <tr> <td>GROUND</td> <td>Done</td> </tr> <tr> <td>12895561034113190</td> <td>2079</td> </tr> <tr> <td>Tracking Number:</td> <td>2080</td> </tr> <tr> <td colspan="2">Status as of Monday, November 29, 1999 9:56:30 AM Pacific Standard Time</td> </tr> <tr> <td colspan="2"> Learn More </td> </tr> </table>		DELIVERED	<u>2071</u>	6/11/99 8:300 AM	DELIVERY	SOMEPLACE, WA US	2072	ANOTHERPLACE, WA US	2073	Friday, June 11, 1999	2074	8:300 AM	2075	RECEIVER	2076	CHRIS	2077	UPS	2078	GROUND	Done	12895561034113190	2079	Tracking Number:	2080	Status as of Monday, November 29, 1999 9:56:30 AM Pacific Standard Time		Learn More	
DELIVERED	<u>2071</u>																												
6/11/99 8:300 AM	DELIVERY																												
SOMEPLACE, WA US	2072																												
ANOTHERPLACE, WA US	2073																												
Friday, June 11, 1999	2074																												
8:300 AM	2075																												
RECEIVER	2076																												
CHRIS	2077																												
UPS	2078																												
GROUND	Done																												
12895561034113190	2079																												
Tracking Number:	2080																												
Status as of Monday, November 29, 1999 9:56:30 AM Pacific Standard Time																													
Learn More																													
<h3>Track Another Package</h3>																													
Enter tracking number: <input type="text" value="2035"/>	<input type="button" value="Submit"/>																												
Tracking provided for 																													
AIRBORNE FedEx UPS EXPRESS Yellow UNITED STATES POSTAL SERVICES Freight																													
<small> Keep a history of all your package. Register with iShip Personal Shipper today! Link Ship Track It to your Web Site Comments or concerns about this site? Click here to help Conditions & comments about this site's privacy policy Site Com Privacy Policy </small>																													
<input type="checkbox"/> Internet																													

FIG. 71

iShip.com

Your Tracking Information

Status:	In-TRANSIT	2071
Last Seen:	There is no record of this mail item. If it was mailed recently, it may not yet be tracked. Please try again later.	
Carrier:	US Postal Service	2078
Tracking Number:	EJ950808694US	2080
Status as of:	Friday, December 3, 1999 10:06:27 AM (Pacifc Standard Time)	
Would you like to be notified when this package is delivered? <input type="checkbox"/> 2090		
If you provide an E-Mail Address, we will notify you and let you know if this package has been delivered. You can include a brief message to be sent with the E-Mail		
Your Name:	John Doe	2091
Name:	Steve Smith	2093
Name:	Jim Jones	2095
Message: These are the goods! <input type="checkbox"/> 2097		
<input type="checkbox"/> Submit <input type="checkbox"/> Learn More		
Track Another Package		
Enter tracking number:		<input type="text"/> 2035 <input type="checkbox"/> 2036-2
<input type="checkbox"/> Submit <input type="checkbox"/> Track		
Tracking provided for AIRBORNE FedEx EXPRESS UPS UNITED STATES POSTAL SERVICES		
Yellow Freight		
Keep a history of all your package. Register with iShip Personal Shipper today! Link Ship Track It to your web site!		
<small>Having trouble? Click here for Help. Overview of comments about iShip.com Privacy Policy</small>		

FIG. 72

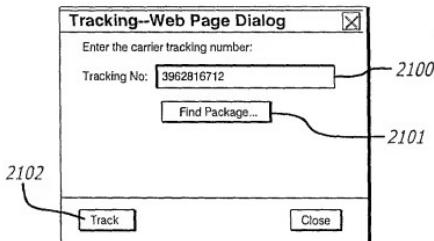
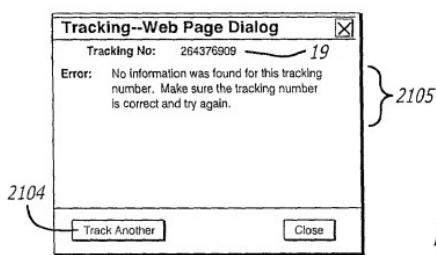
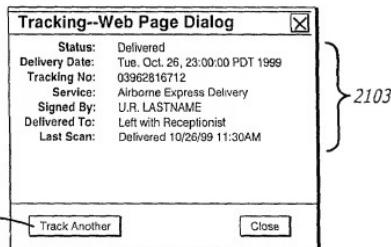


FIG. 73



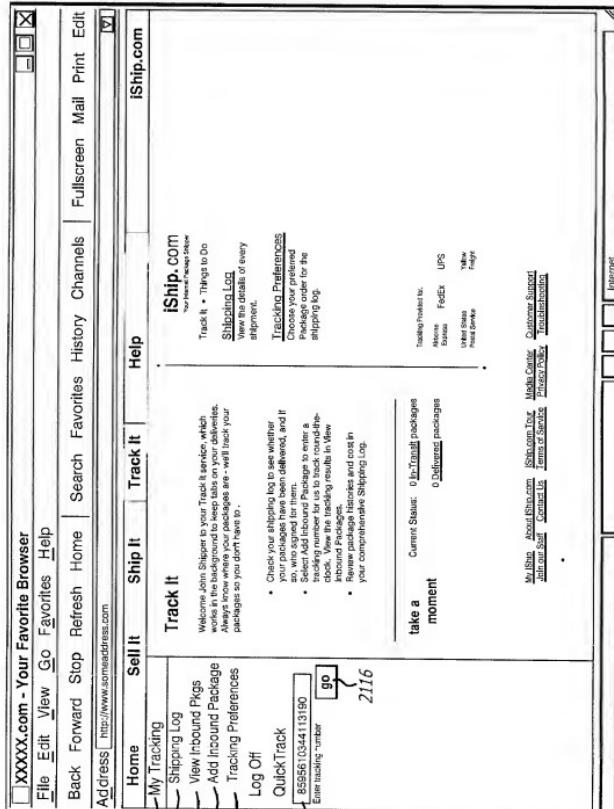


FIG. 76

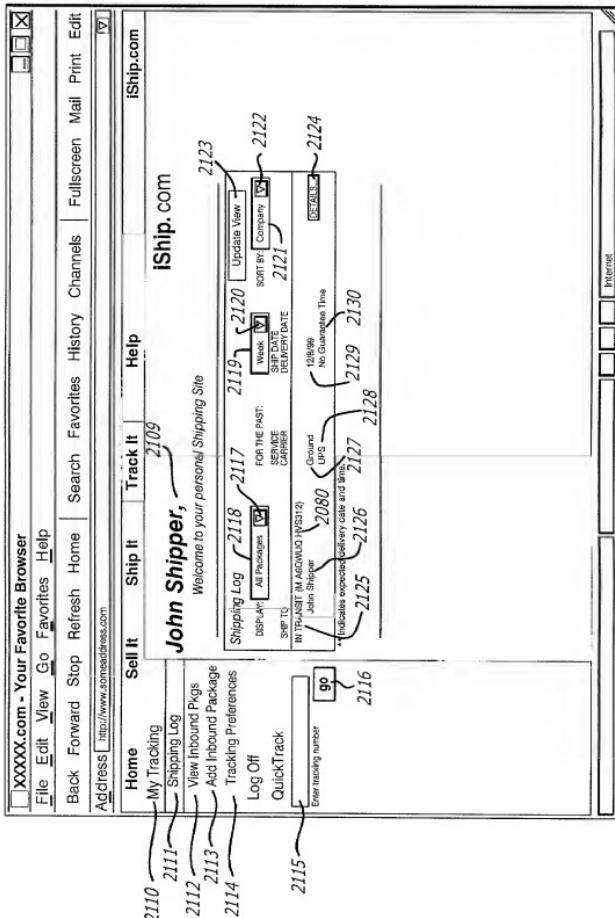


FIG. 77

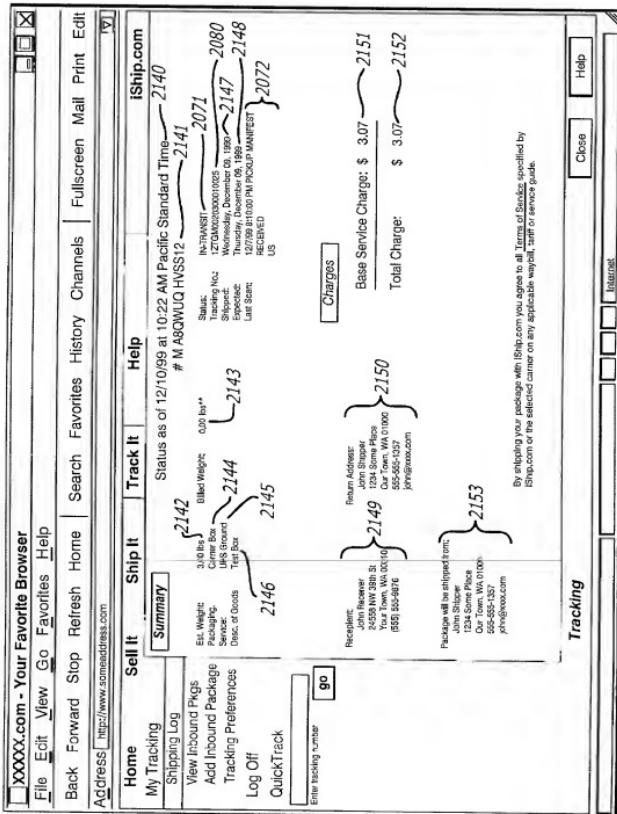


FIG. 78

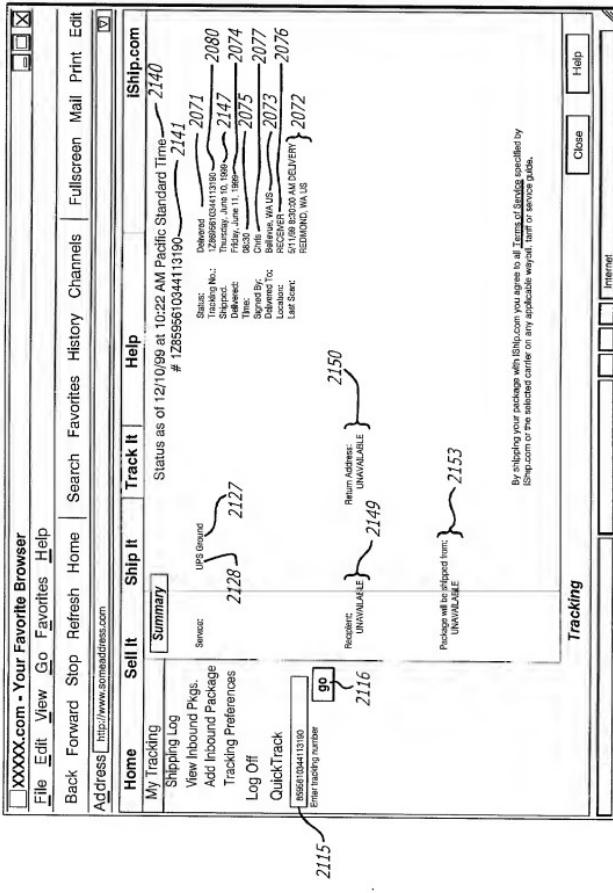


FIG. 79

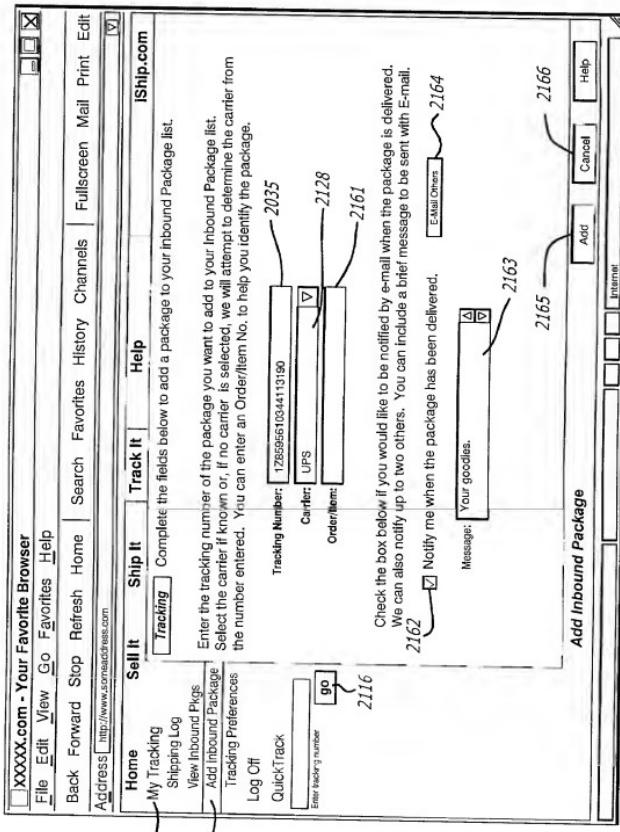


FIG. 80

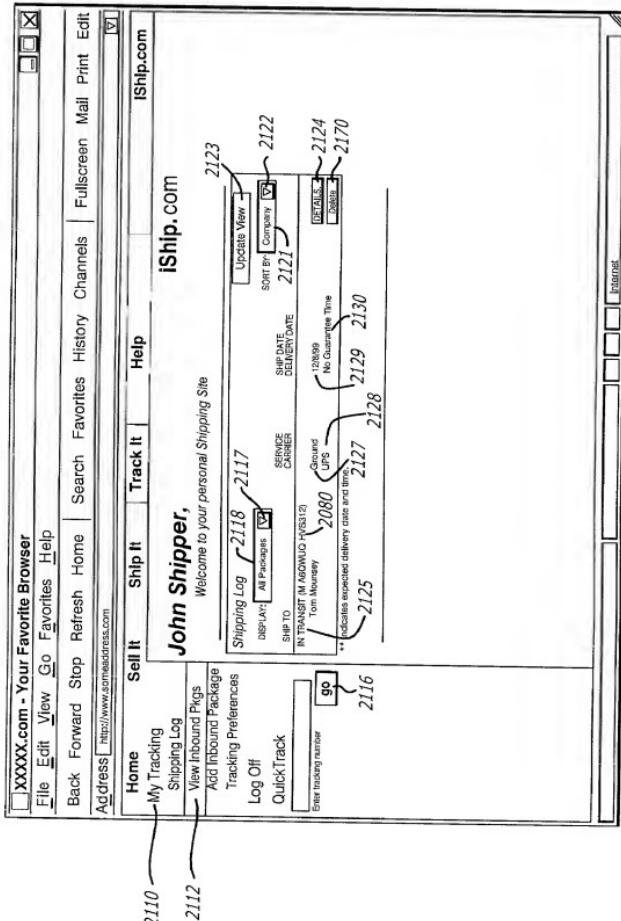


FIG. 81

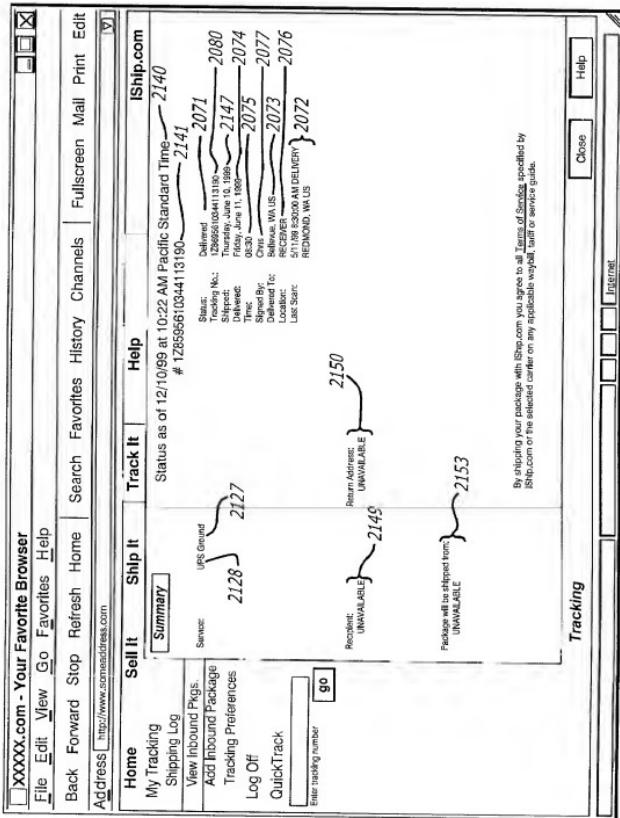


FIG. 82

**COMBINED DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is for an original application.

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am an original, first and joint inventor of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

APPARATUS, SYSTEMS AND METHODS FOR ONLINE, MULTI-CARRIER, MULTI-SERVICE PARCEL SHIPPING MANAGEMENT FEATURING SHIPPING RATE AND DELIVERY SCHEDULE COMPARISON FOR MULTIPLE CARRIERS

SPECIFICATION IDENTIFICATION

The specification is attached hereto.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, Section 1.56(a).

CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)
(35 U.S.C. Section 119(e))

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States

Practitioner's Docket No. PSTM0015/MRK/ST

provisional application(s) listed below:

PROVISIONAL APPLICATION NUMBER	FILING DATE
60/158,179	October 6, 1999
60/170,186	December 10, 1999
60/170,504	December 13, 1999
60/192,692	March 28, 2000
60/192,723	March 27, 2000
60/193,899	March 31, 2000
60/195,748	April 6, 2000

POWER OF ATTORNEY

I hereby appoint Marilyn R. Khorsandi, Patent Bar Registration Number 45,744, and all members of the Bar who are attorneys with, or patent agents of, the law firm KHORSANDI PATENT LAW GROUP, A Law Corporation, as principal attorneys with power to appoint associate attorneys, to prosecute and transact all business in the Patent and Trademark Office connected with this application.

The authority under this Power of Attorney of each person identified above shall automatically terminate and be revoked upon such person ceasing to be a member, associate or patent agent of or of counsel to that law firm.

SEND CORRESPONDENCE TO

Marilyn R. Khorsandi
140 S. Lake Ave., Suite 312
Pasadena, CA 91101
U.S.A.

Reg. Number 45,744

DIRECT TELEPHONE CALLS TO:

Marilyn R. Khorsandi
626-796-2856

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Practitioner's Docket No. PSTM0015/MRK/ST

SIGNATURES

First named inventor	Inventor's Signature	Date
David Allison Bennett		
Residence and Post Office address		Citizenship
20710 14 th Drive, SE, Bothell, Washington 98012		

■■■■■

Second named inventor	Inventor's Signature	Date
Lynn Shaindell Goldhaber		
Residence and Post Office address		Citizenship
12618 Robinhood Lane, Snohomish, Washington 98290		

■■■■■

Third named inventor	Inventor's Signature	Date
Lory Elizabeth Krett		
Residence and Post Office address		Citizenship
12020 101 st Avenue, NE #F1, Kirkland, Washington 98034		

■■■■■

Forth named inventor	Inventor's Signature	Date
William W. Smith, III		
Residence and Post Office address		Citizenship
8636 NE 7 th Street, Medina, Washington 98039		

■■■■■

Practitioner's Docket No. PSTM0015/MRK/ST

Fifth named inventor	Inventor's Signature	Date
Paul Bilibin		
Residence and Post Office address	Citizenship	
1716 – 216 th Street SW, Lynnwood, Washington 98036		

10

Sixth named inventor	Inventor's Signature	Date
Charles D. Mentzer		
Residence and Post Office address		Citizenship
4307 - 210 th Place NE, Redmond, Washington 98053		

MRK/crb
pstm0015dec&power